



April 3, 2014

Ms. Kimberly Tisa  
PCB Coordinator  
U.S. Environmental Protection Agency Region 1  
5 Post Office Square – Suite 100  
Boston, Massachusetts 02109-3912

RE: Final Completion Report  
University of Maine Field House, Orono, Maine

Dear Ms. Tisa:

On behalf of the University of Maine System (UMS), Woodard & Curran has prepared this Final Completion Report to comply with U.S. Environmental Protection Agency (EPA) requirements under 40 CFR 761 and in accordance with EPA's August 26, 2013 PCB Cleanup and Disposal Approval under 40 CFR 761.61(a) and (c) and 761.79(h). This Report includes a narrative of the PCB remediation activities, laboratory analytical data, and copies of waste shipment records generated in association with the PCB remediation work completed at the UMaine Field House located in Orono, Maine.

If you have any comments, questions, or require further information, please do not hesitate to e-mail or call me at the number listed above.

Sincerely,

WOODARD & CURRAN INC.

Amy Martin, P.E.  
Project Engineer

Jeffrey A. Hamel, LSP, LEP  
Senior Vice President

Project No. 224329

Enclosure: Final Completion Report

cc: Carolyn McDonough, University of Maine  
Chip Gavin, University of Maine System  
Nick Hodgkins, MEDEP



# PCB REMEDIATION COMPLETION REPORT

University of Maine  
Field House

224329.04

University of Maine

April 2014

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## 1. INTRODUCTION

On behalf of the University of Maine System (UMS), Woodard & Curran has prepared this Final Completion Report to document the polychlorinated biphenyl (PCB) remediation activities performed at the University of Maine (UMaine) Field House located in Orono, Maine (the Site). The PCB remediation work was completed in accordance with the Notification<sup>1</sup> and the U.S. Environmental Protection Agency's (EPA) August 26, 2013 PCB Cleanup and Disposal Approval granted under 40 CFR 761.61(a) and (c) and 761.79(h) (the Approval), as subsequently modified by EPA. A copy of the Approval is provided as Appendix A to this Report.

### 1.1 SITE BACKGROUND

The UMaine Field House is a brick and concrete masonry building originally constructed in 1926. A site locus map is provided below.

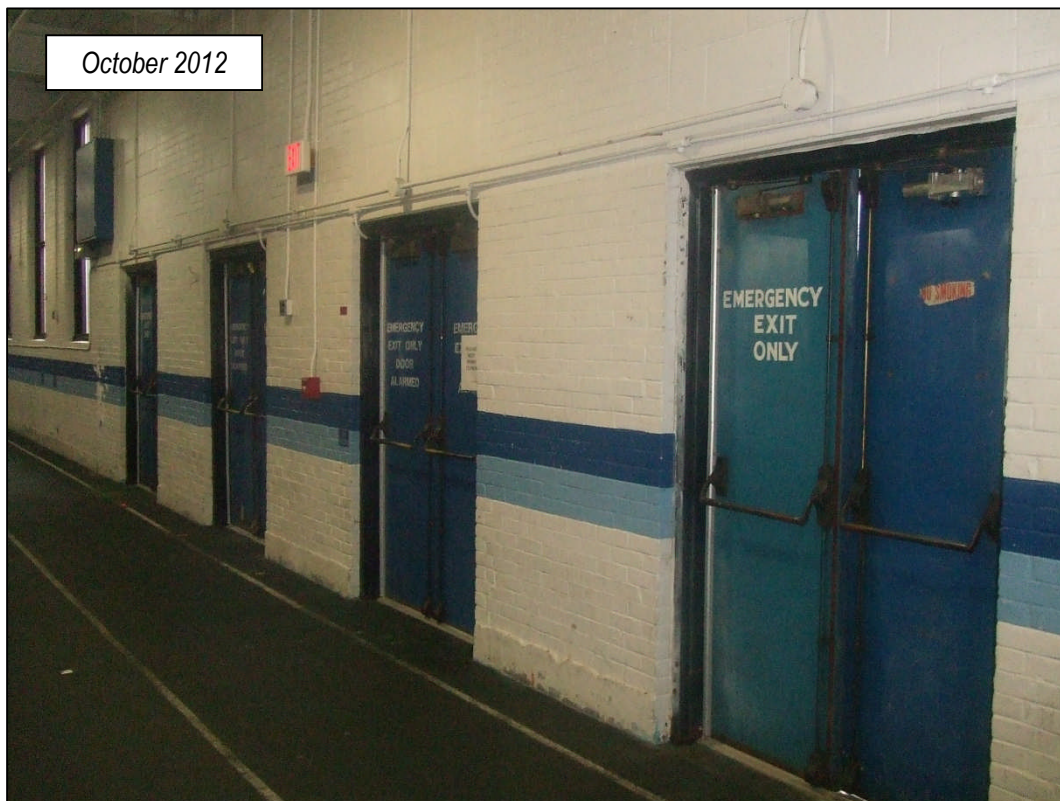
Figure 1-1: Site Locus



Extensive renovations were planned for the indoor track portion of the facility in 2013, including the removal and replacement of sixteen (16) double-doors on the north and west elevations of the building. An inspection of these doors indicated that caulking was present at the interior and exterior masonry to metal door frame joints. Given the potential for this caulking to contain PCBs (due to the possibility of past building renovations during the time period when PCBs were sometimes used in caulking) and the knowledge that it would be disturbed during the renovation

<sup>1</sup> The notification was prepared by Woodard & Curran on behalf of the University of Maine, Orono to satisfy the notification requirement under 40 CFR § 761.61(a)(3). Information was submitted dated August 1, 2013 (PCB Remediation Plan); August 2, 2013 (contractor work plan); August 14, 2013 (Response to Comments); and August 21, 2013 (email responses to contractor work plan comments). These submittals, together, form the "Notification."

work, caulking materials present at the Site were inspected and inventoried, and representative samples were collected for PCB analysis. Analytical results indicated that the door caulking contained PCBs at concentrations of 94,900 parts per million (ppm) in exterior caulking and 174,000 ppm in interior caulking, both of which are above EPA's 50 ppm threshold for PCB bulk product waste under 40 CFR 761. A photo of a typical set of doors prior to PCB remediation is provided below.



## 1.2 PROJECT TEAM

The remediation project team consisted of the following parties:

- University of Maine System – Owner
- Woodard & Curran – Environmental Consultant
- PC Construction Company – General Contractor
- RJ Enterprises (RJE) – Remediation Subcontractor
- ENPRO Services, Inc. – Remediation Subcontractor (PCB waste transport)

## **2. PCB REMEDIATION ACTIVITIES**

This section describes the PCB cleanup and disposal activities conducted with regards to PCB-containing caulking and adjacent building materials consistent with the conditions of the Approval. In general, the remedial approach consisted of the removal of PCB-containing building materials for off-site disposal, including certain interior and exterior caulking, door frames, concrete block or brick walls, and door threshold components. A drawing depicting the sample locations described in this section is provided as Figure 2-1, and a table presenting the verification data is provided as Table 2-1.

### **2.1 SAMPLING & ANALYTICAL METHODS**

Verification samples collected in support of the remediation activities described herein were collected in accordance with generally accepted procedures for environmental sampling. Concrete and brick masonry sampling was conducted consistent with the EPA Region I Standard Operating Procedure for Sampling Porous Surfaces for PCBs (Revision 4, May 2011).

Samples were transferred to Con-Test Analytical Laboratory of East Longmeadow, Massachusetts under standard chain of custody procedures. Samples were extracted using USEPA Method 3540C (Soxhlet extraction) and analyzed for PCBs using USEPA Method 8082. Electronic versions of the laboratory analytical packages are provided in Appendix B.

### **2.2 REMOVAL OF PCB-CONTAINING BUILDING MATERIALS**

This section documents the removal and off-site disposal of the PCB-containing building materials identified within the project work area. In summary, the remediation process included the removal of the PCB source materials (i.e., PCB  $\geq$  50 ppm caulking) and direct contact / “coated” adjacent materials to a specific cut-line. Materials on one side of the cut line (containing PCBs) were managed for off-site disposal as  $\geq$  50 ppm PCB Bulk Product Waste, and materials on the other side of the cut line (containing PCBs below the unrestricted use cleanup level) were left in place without restrictions.

#### **2.2.1 Site Controls**

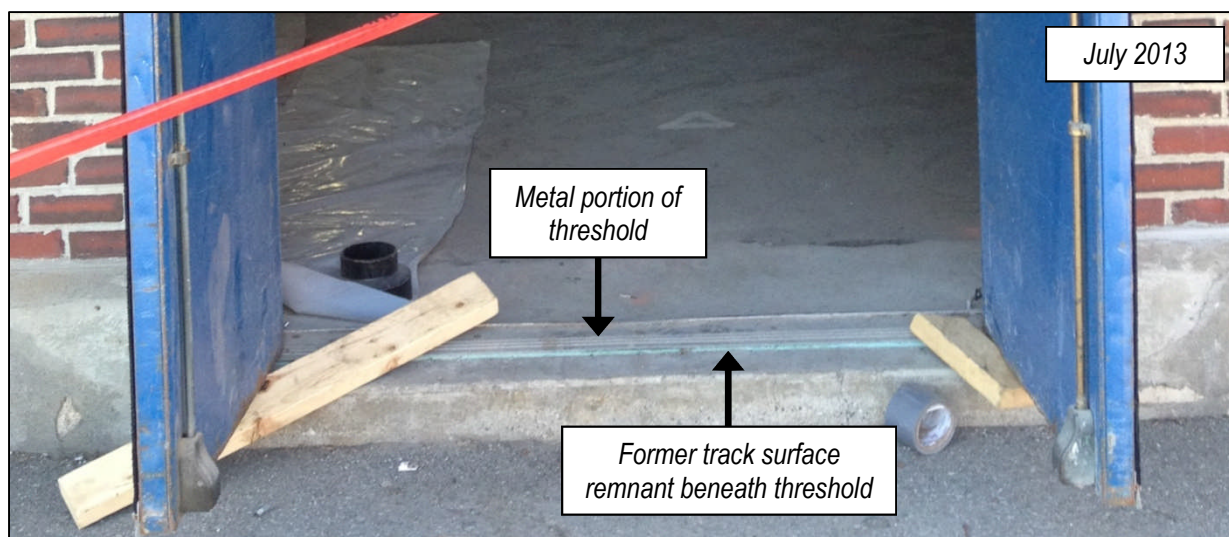
Site controls were established to prevent airborne particulate from migrating outside of the work areas. These controls included the establishment of site access controls, set up of work zone barriers and poly sheeting around work areas, and the protection of adjacent ground surfaces by covering the surfaces with poly sheeting. The poly sheeting barriers were set up as interior and exterior containments with negative pressure HEPA systems in order to reduce airborne particulates both inside and outside of the containment.

#### **2.2.2 Removal Methods**

Interior and exterior door frame caulking identified with PCBs  $\geq$  50 ppm as described in the Notification was removed for off-site disposal as PCB Bulk Product Waste. Gross caulking removal was completed under proper site controls using non-powered hand tools (e.g., utility knives, hand scrapers/putty knives, and/or a hammer and chisel) in accordance with the Notification and the PCB Remediation Work Plan prepared by RJ Enterprises. Residual caulking attached to the metal door frames and steel lintels was removed collectively with the door frames and lintels for off-site disposal as PCB Bulk Product Waste.

A metal threshold piece installed on the surface of the concrete threshold at each door was also removed for off-site disposal as PCB Bulk Product Waste. However, due to the presence of a remnant portion of the former track surface beneath the metal threshold (see photo below), this portion of the waste stream was segregated for management and off-site disposal as a hazardous mercury waste as well as a  $\geq$  50 ppm PCB Bulk Product Waste.





Brick and concrete masonry in direct contact with the  $\geq 50$  ppm PCB caulking was removed by a cut line and segregation approach as described in the Notification and summarized below. The initial cut lines for each joint were as follows:

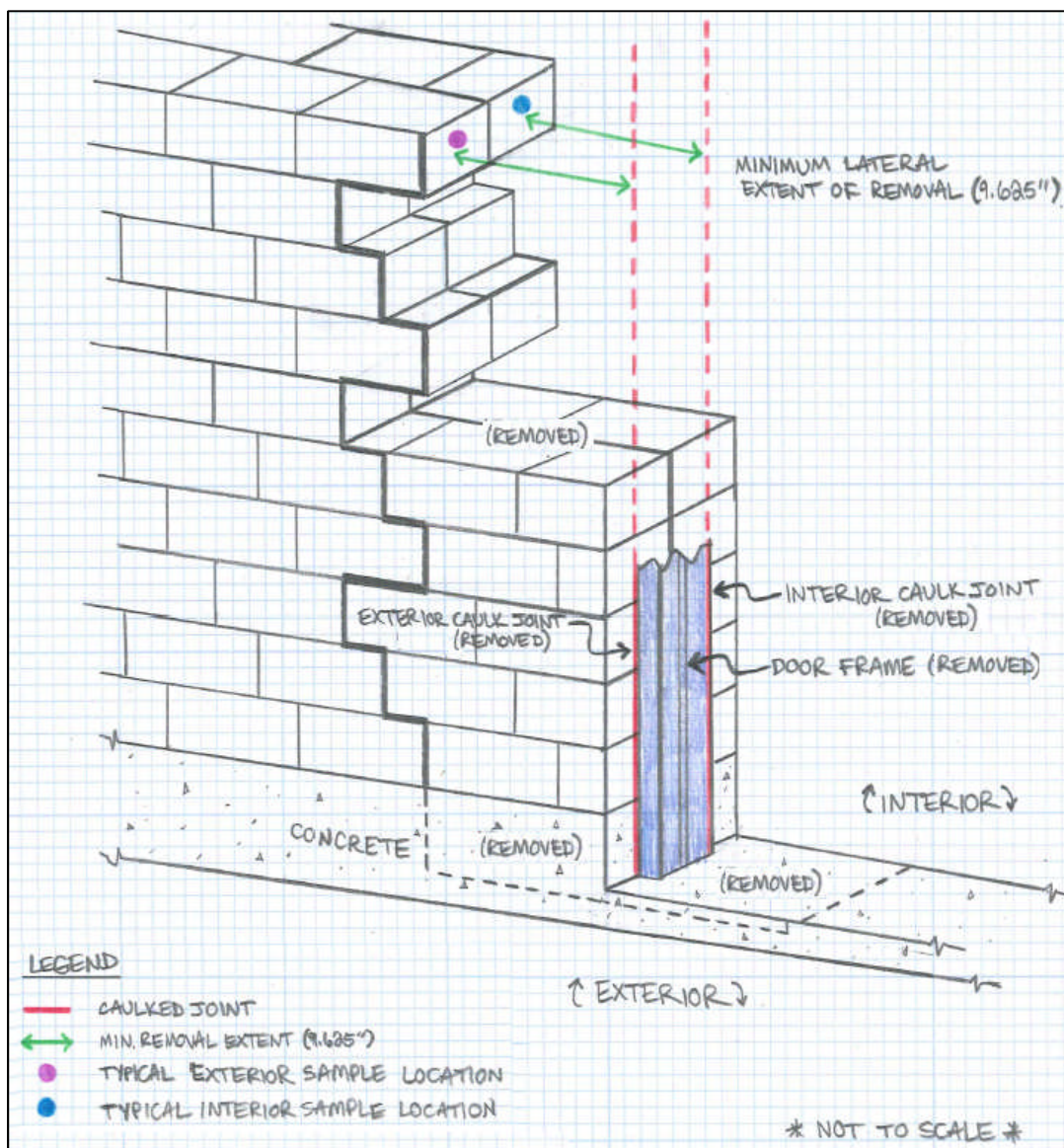
- Vertical Joints: interior and exterior brick masonry was removed to a minimum extent of 9.625 inches from the caulked joint. The removal was performed primarily using hand tools (hammer and chisel) with some use of a wet saw or chipping gun as needed. Due to the removal approach of “toothing” out whole bricks at the nearest mortared joint at or beyond 9.625 inches, some portions of bricks beyond the minimum cut line were removed for collective management and disposal with the PCB Bulk Product Waste. This whole-brick toothed removal approach was implemented as opposed to saw-cutting through all bricks at 9.625 inches due to contractor preference and greater ease of new masonry installation. A schematic of this approach is provided in Section 2.2.3 below.
- Horizontal Threshold Joints: interior and exterior portions of the concrete threshold were removed by chipping the concrete at the base of the door frame to a minimum depth of 1.0 inches. The lateral extent of chipping coincided with the 9.625-inch cut line of the vertical joint above the threshold.
- Horizontal Lintel Joints: exterior masonry above the upper horizontal (lintel) joint consisted of bricks at all north and west elevation doors. Interior masonry above the upper horizontal (lintel) joint consisted of bricks above the 4 west elevation doors and consisted of concrete masonry unit (CMU) blocks above the 12 north elevation doors. The minimum extent of masonry removal above the lintel joint consisted of either one row of bricks (where bricks were present), or, the equivalent of one row of bricks (4 inches) at doors with CMU blocks above the interior joint. Masonry was removed primarily by use of a wet saw and/or a chipping gun.

After the initial masonry removals were completed as described above, waste materials were bagged within the work area prior to being transported to a lined roll-off container staged adjacent to the work area for off-site disposal as PCB Bulk Product Waste.

### 2.2.3 Verification Sampling

Post-removal masonry verification samples were collected from the masonry surfaces in former direct contact with the caulked joints to confirm that the target cleanup level of 1 ppm had been achieved in the media remaining in place. Masonry samples were collected from a depth of 0 to 0.5 inches beyond the cut line in accordance with the EPA Region 1 *Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs) Revision 4* (May 2011). A schematic depicting a typical sample location from the “toothed” vertical joint removal area

is provided below. As shown, samples were collected from remaining masonry nearest to the former caulking (i.e., at the minimum cut line).



Verification samples were collected at a frequency of 1 sample per 10 linear feet (l.f.) of caulking for the first 25% of doors spatially distributed at representative locations throughout the project work area (i.e., 3 out of 12 doors from the north, and 1 out of 4 doors from the west). After EPA's review of the initial rounds of data provided on September 10 and September 17, 2013, the sampling frequency was reduced to 1 sample per 20 l.f. of caulking at the remaining doors.

Analytical results from the verification samples were evaluated in comparison to the unrestricted use cleanup level of 1 ppm. If results from the masonry remaining in place were reported with PCBs  $\leq 1$  ppm, the cut line was considered to be sufficient and no further masonry removals were performed. If results from the masonry remaining in place were reported with PCBs  $> 1$  ppm, additional masonry was removed from the area represented by that sample, and a follow-up verification sample was collected from the more distant cut line for comparison to the 1 ppm cleanup level.



Table 2-1 presents the data at the established cut line for each media subject to a cut line remediation approach. As shown on the table, the 1 ppm cleanup level was met in the initial sample collected from 39 out of 41 locations, including:

- 20 out of 20 vertical joint samples (9 samples from the interior side of the joint, 11 samples from the exterior side of the joint); 18 samples were reported as non-detect for PCBs < 0.10 ppm; 2 samples were reported with detectable concentrations of PCBs at 0.096 and 0.16 ppm.
- 10 out of 11 horizontal threshold joint samples (5 from the interior side of the joint, 5 from the exterior side of the joint); 7 samples were reported as non-detect for PCBs < 0.10 ppm; 3 samples were reported with detectable concentrations of PCBs at 0.11, 0.84, and 0.88 ppm.
- 9 out of 10 horizontal lintel joint samples (5 from the interior side of the joint, 4 from the exterior side of the joint); 8 samples were reported as non-detect for PCBs < 0.10 ppm; 1 sample was reported with detectable concentrations of PCBs at 0.38 ppm.

At two sample locations, the PCB result reported after the first round of removal was reported above the 1 ppm cleanup level. The following actions were taken at these two locations:

- Door N16 upper horizontal lintel joint: PCBs were reported at 2.2 ppm in interior concrete above the former door lintel at a height of approximately 4 inches above the former joint (equivalent to one row of bricks removed from the exterior). Follow-up PCB remediation work performed at this location included:
  - Removal of the remaining portion of the interior concrete block above the lintel to the full height of the block (additional removal of approximately 4 inches of concrete), resulting in total removal of the 8-inch high block above the lintel. A follow-up verification sample collected from the concrete remaining in place at the new cut line was reported with PCBs at 0.35 ppm. No further concrete removal was performed above the door at this location.
  - Exterior brick remaining in place above the lintel could not be removed to a more distant cut line without disassembly of an exterior steel awning scheduled to remain in place; as such, a separate verification sample was collected from the remaining brick at the existing 4-inch cut line to provide a separate data point for exterior vs. interior media at this door only. The result of the sample collected from brick remaining in place was reported with PCBs at 0.30 ppm. No further brick removal was performed above the door at this location.
- Door W4 concrete threshold: PCBs were reported at 1.1 ppm in the interior concrete threshold at a depth of 1 inch below the former joint (after the top inch of concrete had been removed by chipping). Follow-up PCB remediation work performed at this location included:
  - One (1) additional inch of concrete was removed from interior and exterior portions of the Door W4 threshold for a total removal depth of 2.0 inches at this location. A follow-up sample was collected and reported as non-detect for PCBs (< 0.090 ppm). No further concrete was removed from the threshold at this location.
  - At Door W3, concrete removal was performed to the prescribed depth of 1.0 inches. The verification sample collected from this location was reported with PCBs at 0.88 ppm, meeting the 1 ppm cleanup level. No further concrete was removed from the threshold at this location.
  - At Door W1 and Door W2, where removals were not performed until after data had been reported for Door W3 and Door W4, the concrete removal was performed to an initial depth of 2.0 inches prior to collecting verification samples from each threshold; this was done in order to prevent potential schedule delays in the event that a 1-inch removal was insufficient. Both of the samples from Doors W1 and W2 were reported as non-detect for PCBs (< 0.086 and < 0.097 ppm), and no further concrete was removed from the threshold at these locations.

Samples were transported under chain of custody protocols to Con-Test Analytical Laboratory of East Longmeadow, Massachusetts for extraction by USEPA Method 3540C (Soxhlet Extraction) and PCB analysis by USEPA Method 8082. Copies of the complete laboratory analytical reports associated with verification sampling are provided in Appendix B.

## **2.3 DATA VALIDATION**

A data quality assessment was conducted by a third-party validator, Data Check Inc. of New Durham, New Hampshire, to evaluate the usability of the post-removal verification data. Results were validated by a review of sample custody, holding times, sample dilution, surrogates, method blanks, field blanks, matrix spike (MS) / matrix spike duplicates (MSD), laboratory control samples (LCS) / laboratory control sample duplicates (LCSD), field duplicates, and field equipment blanks. A copy of Data Check's data validation summary is provided in Appendix C.

As presented in the data validation summary, only two sample results were qualified as estimated as a result of the data validation. Primary sample VBC-021 (the concrete threshold sample collected from Door W4 with a result of 1.1 ppm) and its duplicate sample VBC-043 (reported result of 0.37 ppm) were qualified as estimated (J) due to a relative percent difference (RPD) between the sample results in excess of the RPD acceptance criteria. No data was rejected as a result of this data quality assessment, and no qualifiers were applied to any other sample results.

Based on the results of the data quality assessment, the data has been deemed usable for its intended purpose of verifying the completion of the PCB remediation activities.

## **2.4 WASTE STORAGE AND DISPOSAL**

The following activities were completed with regards to the storage and disposal of PCB wastes:

- Two secure, lined, and covered waste containers (20-yard roll-offs) were staged for the collection of  $\geq 50$  ppm PCB Bulk Product Waste generated during the work activities in accordance with 40 CFR 761.65. One 55-gallon drum was staged for the collection of commingled  $\geq 50$  ppm PCB waste and hazardous mercury waste (the metal threshold components with underlying remnant track surface material).
- PCB waste containers were properly labeled and marked in accordance with 40 CFR 761.40.
- At the end of each work day, any PCB wastes within an active work area were either removed from the work area and placed into the appropriate waste containers, or were secured within the active work area (e.g., waste materials may have been wrapped in polyethylene sheeting and kept within a containment area until the removal activity was complete, and all removed media could be collectively transported to the roll-off container).
- After use, disposable PPE, poly sheeting, and other non-liquid materials generated during the work were placed in the same container as the PCB Bulk Product Waste for disposal. Non-disposable equipment and tools that handled PCB material were decontaminated following the procedures described in 40 CFR 761.79. No liquid wastes were generated during the decontamination procedures.
- Caulking containing PCBs  $\geq 50$  ppm, building materials coated or in direct contact with this caulking, and used PPE and poly sheeting were transported off-site for disposal as PCB Bulk Product Waste. Filled waste containers were transported off-site by ENPRO Services, Inc. A total of 19,450 kilograms (21.4 tons) of PCB waste contained in two roll-off containers were removed for off-site disposal to the CWM Chemical Services, LLC hazardous waste disposal facility located in Model City, New York. The first roll-off was shipped off-site on September 3, 2013, and the second roll-off was shipped off-site on December 2, 2013.
- Approximately 45 kilograms of PCB Bulk Product Waste commingled with hazardous mercury waste was containerized in one 55-gallon drum and transported under hazardous waste manifest for incineration at the

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Veolia ES Technical Solutions facility located in Port Arthur, Texas. The drum was transported off-site by ENPRO Services, Inc. on December 2, 2013.

- Copies of waste manifests and certificates of disposal are included in Appendix D of this Report.

## **2.5 SITE RESTORATION**

After completing the remediation activities and verifying that the cleanup levels had been met, new masonry and new door frames were installed at the removal areas. Overall building renovation and restoration activities continued according to the architect's plans for the overall site renovation project.

### 3. SUMMARY AND CONCLUSIONS

The PCB remediation activities described in this Final Completion Report have been performed in accordance with the Notification and the conditions of EPA's August 26, 2013 Approval. In summary:

- Removal of PCB  $\geq$  50 ppm caulking and certain building materials in former direct contact with the caulking was completed to an extent such that either:
  - The material was removed in its entirety (i.e., PCB  $\geq$  50 ppm caulking, door frames, and metal threshold components); or,
  - The material was removed by a cut line and segregation approach (i.e., concrete and brick masonry), and the verification samples collected beyond the applied cut lines demonstrated that the unrestricted use cleanup level had been met for materials remaining in place.
- Approximately 19,450 kilograms of PCB Bulk Product Waste contained in two roll-off containers were removed for off-site disposal and transported under hazardous waste manifest to the CWM Chemical Services hazardous waste disposal facility located in Model City, New York.
- Approximately 45 kilograms of PCB Bulk Product Waste commingled with hazardous mercury waste was containerized in one 55-gallon drum and transported under hazardous waste manifest for incineration at the Veolia ES Technical Solutions facility located in Port Arthur, Texas.

The PCB remediation activities authorized under the Approval are considered to be complete as summarized in this report, and no further work is warranted to meet the conditions of the Approval.



**Table 2-1**  
**Verification Data Summary**  
**Field House Doors - University of Maine - Orono**

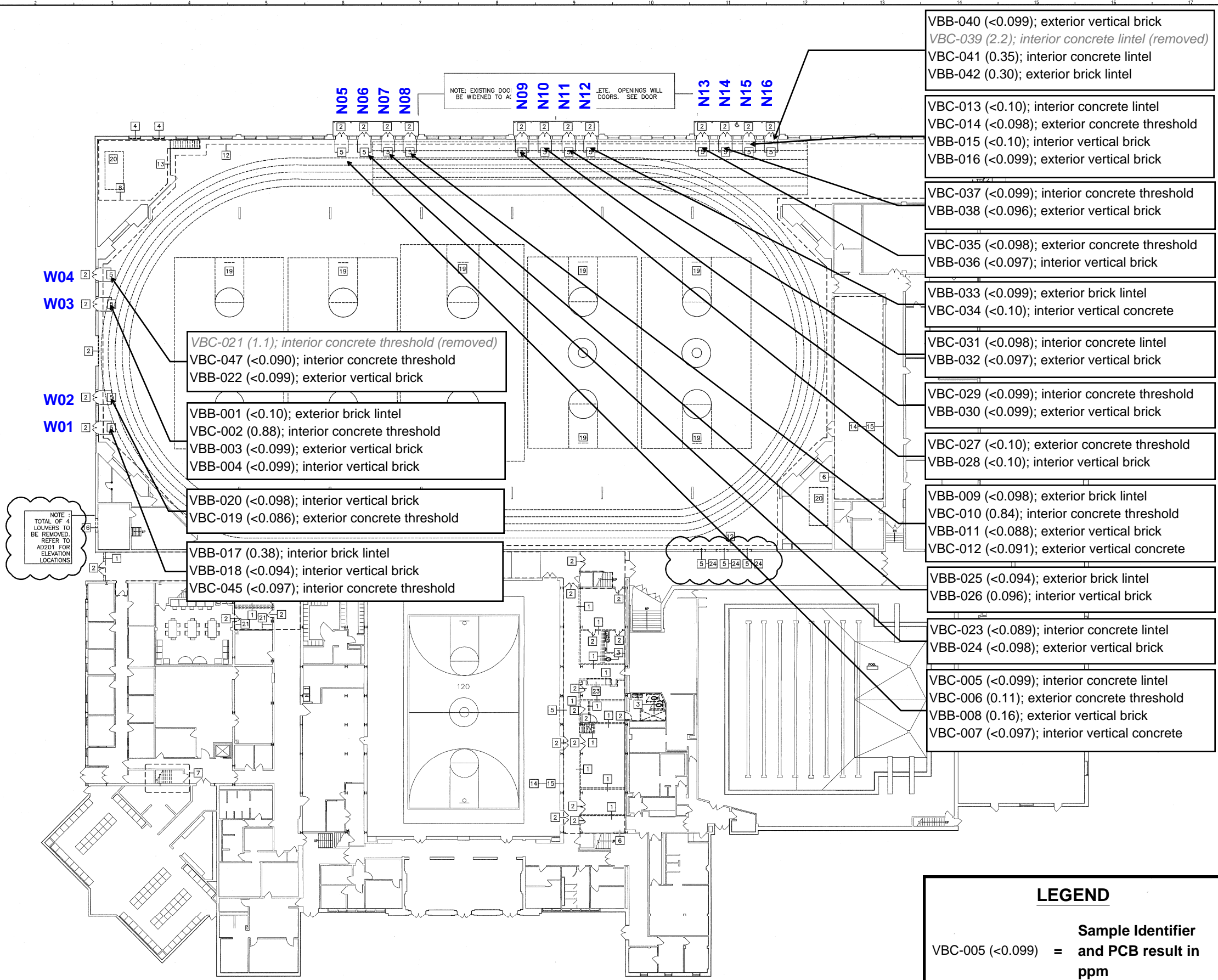
<i>Sample Frequency</i>	<i>Location</i>	<i>Lintel (Top Horizontal)</i>	<i>Threshold (Bottom Horizontal)</i>	<i>Left Vertical Joint</i>	<i>Right Vertical Joint</i>	<i>Number of Primary Samples</i>
1 per 10 l.f. (First 25% of doors)	N5	< 0.099 concrete	0.11 concrete	< 0.097 concrete	0.16 brick	4
	N8	< 0.098 brick	0.84 concrete	< 0.088 brick	< 0.091 concrete	4
	N15	< 0.10 concrete	< 0.098 concrete	< 0.10 brick	< 0.099 brick	4
	W3	< 0.10 brick	0.88 concrete	< 0.099 brick	< 0.099 brick	4
1 per 20 l.f. (Remaining 75% of doors)	N6	< 0.089 concrete			< 0.098 brick	2
	N7	< 0.094 brick		0.096 brick		2
	N9		< 0.10 concrete		< 0.10 brick	2
	N10		< 0.099 concrete	< 0.099 brick		2
	N11	< 0.098 concrete			< 0.097 brick	2
	N12	< 0.099 brick		< 0.10 concrete		2
	N13		< 0.098 concrete		< 0.097 brick	2
	N14		< 0.099 concrete	< 0.096 brick		2
	N16	<b>2.2 concrete (removed)</b> 2nd-round data 0.35 (concrete) and 0.30 (brick)			< 0.099 brick	2
	W1 <sup>1</sup>	0.38 brick	< 0.097 concrete	< 0.094 brick		3
	W2		< 0.086 concrete		< 0.098 brick	2
	W4		<b>1.1 concrete (removed)</b> 2nd-round data non-detect (<0.090)	< 0.099 brick		2
<i>Number of Primary Samples</i>		<i>10</i>	<i>11</i>	<i>10</i>	<i>10</i>	<i>41</i>

Key:

EXTERIOR SAMPLE
INTERIOR SAMPLE

Notes:

- Door W1 lintel sample moved from proposed exterior location to interior location at EPA's request (9/17/13 email). Door W1 threshold sample was added to sampling scope in order to achieve 100% sampling frequency for west elevation door thresholds after the Door W4 result was reported at 1.1 ppm after initial round of concrete removal.
- Samples collected per EPA Region 1 SOP for sampling porous surfaces. Samples submitted under COC protocols to ConTest Environmental Laboratory of East Longmeadow, MA, extracted by EPA Method 3540C, and analyzed for PCBs by EPA Method 8082. Results are presented in units of parts per million (ppm).
- Masonry adjacent to top horizontal joints consists of brick (exterior joints and western interior joints) or concrete block (northern interior joints); samples collected to 0.5-inch depth above former lintel. Masonry adjacent to vertical termination points of each vertical joint consists of poured concrete (threshold); samples collected to 0.5-inch depth below former surface of threshold. Masonry adjacent to north elevation vertical joints consists of brick (90% of each joint) or concrete (10% of joint); west elevation vertical joints are entirely brick.
- Total Caulking Quantity: 640 l.f. (320 l.f. interior, 320 l.f. exterior)
- Caulking Quantity per Door: 40 l.f. (20 l.f. interior [7 l.f. per vertical joint, 6 l.f. top horizontal joint])  
(20 l.f. exterior [7 l.f. per vertical joint, 6 l.f. top horizontal joint])



**GENERAL DEMOLITION NOTES:**

- COORDINATE EXTENT OF DEMOLITION WITH LOCATIONS OF PARTITIONS DESCRIBED ON PLANS AND WITH LOCATIONS OF FINISHES NOTED AS EXISTING TO REMAIN.
- ANY WALL, PARTITION OR SURFACE DISTURBED BECAUSE OF NEW WORK OR DEMOLITION SHALL BE PATCHED AND FINISHED CONTINUOUSLY TO THE NEAREST CORNER UNLESS NOTED OTHERWISE. MATCH EXISTING ADJACENT CONSTRUCTION FINISHES, CONTINUITY AND FIRE RATINGS UNLESS NOTED OTHERWISE.
- PROTECT ALL FINISHES, MATERIALS AND EQUIPMENT NOTED AS EXISTING TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL FINISHES, MATERIALS AND EQUIPMENT DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL EXISTING OR NEW FINISHES, MATERIALS AND EQUIPMENT DAMAGED BY ANY WORK REQUIRED BY AND ASSOCIATED WITH THE CONSTRUCTION DOCUMENTS, WHICH IS NOT DESCRIBED AS BEING REMOVED OR DEMOLISHED.
- FOR EXTENTS OF CEILING REMOVALS AND ADJUSTMENTS REFER TO REFLECTED CEILING PLAN.
- DIMENSIONS INDICATED ± ARE EXISTING CONDITION DIMENSIONS TO BE VERIFIED IN FIELD.
- COORDINATE ADDITIONAL DEMOLITION WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- COORDINATE REMOVAL OF FLOOR FINISHES WITH NEW WORK IN FINISH PLAN AND SCHEDULE.
- SALVAGE BRICK BEING DEMOLISHED TO BE RE-USED AT EXTERIOR WALL INFILL LOCATIONS WHEN POSSIBLE.
- IT IS THE CONTRACTORS RESPONSIBILITY TO EXECUTE DEMOLITION WORK AS REQUIRED TO ALLOW THE EXECUTION OF NEW WORK. IF SUCH WORK IS UNFORESSEEN AND/OR NOT DESCRIBED IN THE CONSTRUCTION DOCUMENTS, IT MUST BE APPROVED BY AND COORDINATED WITH THE ARCHITECT/ENGINEER.

**DEMOLITION KEY NOTES:**

- REMOVE PARTITION IN ITS ENTIRETY.
- REMOVE DOOR, FRAME AND HARDWARE IN ITS ENTIRETY.
- REMOVE PLUMBING FIXTURE. REFER TO PLUMBING.
- REMOVE EXTERIOR WINDOW AND WINDOW FRAME IN ITS ENTIRETY.
- REMOVE PORTION OF WALL/PARTITION AND PREPARE FOR NEW DOOR/WINDOW/OPENING. COORDINATE WITH NEW WORK FOR EXTENTS.
- REMOVE PORTION OF PARTITION. COORDINATE WITH NEW WORK FOR EXTENTS.
- REMOVE EXISTING STAIR AND HANDRAIL.
- REMOVE EXISTING MEZZANINE AND STAIR COMPLETE.
- REMOVE EXISTING ROOF IN ITS ENTIRETY. COORDINATE REMOVAL WITH MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL.
- REMOVE PORTION OF CONCRETE FLOOR SLAB AS NOTED. COORDINATE WITH NEW WORK FOR EXTENTS.
- REMOVE PORTION OF EXISTING ROOF. COORDINATE EXTENTS WITH MECHANICAL AND STRUCTURAL WORK.
- ENTIRE EXISTING ATHLETIC SURFACE WITHIN DESCRIBED PERIMETER TO BE REMOVED BY OWNER.
- REMOVE EXISTING CHAINLINK FENCE AND ACCESSORIES. PREPARE FOR REINSTALLATION IN THE EXISTING LOCATION.
- REMOVE EXISTING FLOORING AND PREPARE SURFACE TO RECEIVE NEW FLOOR MATERIAL. REFER TO FINISH PLANS FOR FLOOR TYPE.
- REMOVE EXISTING CEILING AND CEILING SUPPORT SYSTEM.
- REMOVE EXISTING EXTERIOR MECHANICAL LOUVER.
- REMOVE PORTION OF ROOF SURFACE. CONTRACTOR TO VERIFY EXISTING INSULATION AND DECK. PREPARE SURFACE FOR NEW INSULATION AND MEMBRANE.
- REMOVE 4" OF EXISTING FOUNDATION WALL. COORDINATE EXTENT WITH NEW OVERHEAD DOOR TO BE INSTALLED. PREPARE SURFACE FOR NEW CONCRETE TO BE FLUSH WITH EXISTING FINISHED FLOOR.
- REMOVE EXISTING BASKETBALL GOALS COMPLETE. REMOVE ASSOCIATED SUPPORT BACK TO BUILDING STRUCTURE. REMOVE LOWERING MECHANISM.
- REMOVE EXISTING CONCRETE MECHANICAL PAD, MECHANICAL EQUIPMENT, MECHANICAL SYSTEMS AND SUPPORT FLUSH TO EXISTING FLOOR SUBSTRATE. REFER TO MECHANICAL DRAWINGS FOR SPECIFIC LOCATION/SIZE.
- REMOVE EXISTING WALL FINISH MATERIAL TO STUD/MASONRY STRUCTURE. PREPARE FOR NEW WALL FINISH MATERIAL. SEE PLAN FOR PARTITION TYPE.
- REMOVE WALL MOUNTED MECHANICAL UNIT. REFER TO MECH. SCOPE FOR EXTENTS.
- REMOVE CASEWORK IN ITS ENTIRETY.
- REMOVE PORTION OF FOUNDATION WALL AT NEW STAIR STEP. COORDINATE WITH NEW STAIR LOCATION.

REV.	DESCRIPTION	DATE
1	ADD 2	04-05-13
0	ISSUED FOR CONSTRUCTION	03-13-13

**ADD 2**  
04-05-13

CURRENT ISSUE STATUS:

**PROJECT NORTH**

**DAVID R. LAY**  
No. 2502  
STATE OF MAINE

ARCHITECTURE  
ENGINEERING  
PLANNING  
INTERIOR DESIGN  
COMMISSIONING  
**SMRT**  
UNIVERSITY OF MAINE - ORONO  
MEMORIAL FIELD HOUSE AND  
GYMNASIUM RENOVATION  
ORONO, MAINE

144 Fore Street P.O. Box 618  
Portland, Maine 04104  
tel. (207) 772-0846  
fax. (207) 772-1070  
www.smrtinc.com

**AECOM**

**GROUND FLOOR  
DEMOLITION PLAN**

SHEET TITLE:

SCALE: AS NOTED DATE: 04-05-13

PROJECT MANAGER: DRL GRAPHIC SCALE: 0' 1"

JOB CAP/DRAWING: ART

A/E OF RECORD: DRL SHEET No.

SMRT CAD FILE: AD101-12022

PROJECT No. 12022

**AD101**

**LEGEND**

VBC-005 (<0.099) = Sample Identifier and PCB result in ppm

W01 = Door Identifier

## **APPENDIX A: EPA APPROVAL (AUGUST 26, 2013)**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

5 POST OFFICE SQUARE, SUITE 100  
BOSTON, MASSACHUSETTS 02109-3912

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

**AUG 26 2013**

Carolyn McDonough, P.E.  
Associate Director of Facilities Management for Planning, Design, & Construction  
University of Maine  
5765 Service Building  
Orono, Maine 04469-5765

Re: PCB Cleanup and Disposal Approval under 40 CFR §§ 761.61(a) and (c)  
and § 761.79(h)  
University of Maine Field House  
Orono, Maine

Dear Ms. McDonough:

This is in response to the University of Maine (UMaine) Notification<sup>1</sup> for approval of the proposed plan to address PCB contamination at the University of Maine Field House (the Site) located on the University of Maine campus in Orono, Maine. The Site contains PCB-contaminated building materials that exceed the allowable PCB levels under 40 CFR § 761.20(a), § 761.61, and § 761.62. Specifically, PCBs have been found in caulk and in the adjacent building substrates (i.e., brick, concrete, door frames and lintels).

UMaine has requested an approval under 40 CFR § 761.61(a) that includes the following activities:

- Remove *non-porous surfaces* in contact with PCB caulk (i.e., door frames and steel lintels) and dispose as a *PCB bulk product waste* in accordance with § 761.62(a);
- Remove caulk and associated *porous surfaces* (i.e., brick and concrete masonry to a minimum distance of 9.625 inches along each vertical side and to a minimum 1 brick or equivalent distance above the top of the doors) and dispose as a *PCB bulk product waste* in accordance with § 761.62(a);

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<sup>1</sup> The notification was prepared by Woodard & Curran on behalf of the University of Maine, Orono to satisfy the notification requirement under 40 CFR § 761.61(a)(3). Information was submitted dated August 1, 2013 (PCB Remediation Plan); August 2, 2013 (contractor work plan); August 14, 2013 (Response to Comments); and August 21, 2013 (email responses to contractor work plan comments). These submittals shall be referred to as the "Notification".



- Remove *porous surfaces* (i.e., the concrete threshold) to a depth of 1-inch and a distance of 9.625 inches from the horizontal joint and dispose as a *PCB bulk product waste* in accordance with § 761.62(a); and,
- Collect verification samples of *porous surfaces* to confirm that the PCB cleanup standard of less than or equal to ( $\leq$ ) 1 part per million (ppm) has been met.

With the exception of the proposed verification sampling frequency for *porous surfaces*, the Notification meets the requirements and standards established under § 761.61(a), § 761.62, and § 761.79 for cleanup and disposal of *PCB remediation waste* and *PCB bulk product waste*.

UMaine has proposed a deviation from the verification sampling frequency specified under § 761.61(a)(6). EPA has determined that insufficient data was provided to support the alternative verification sampling frequency. EPA is requiring a higher sampling frequency to confirm the remedial approach. If the sampling results support the removal plan, EPA may consider a reduction to the frequency. (Please see Attachment 1, Condition 12.b.) EPA has determined that this approach will be adequate to confirm that the cleanup standard has been met and that the sampling approach will not create an unreasonable risk to public health or the environment. EPA may approve the sampling approach under § 761.61(c).

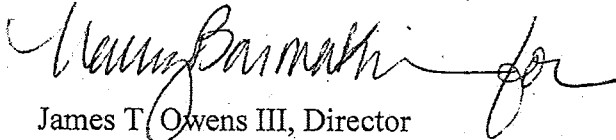
UMaine may proceed with its project in accordance with 40 CFR §§ 761.61(a) and (c); § 761.62; § 761.79(h); its Notification; and, this Approval, subject to the conditions of Attachment 1.

Questions and correspondence regarding this Approval should be directed to:

Kimberly N. Tisa, PCB Coordinator (OSRR07-2)  
United States Environmental Protection Agency  
5 Post Office Square, Suite 100  
Boston, Massachusetts 02109-3912  
Telephone: (617) 918-1527  
Facsimile: (617) 918-0527

EPA shall not consider this project complete until it has received all submittals required under this Approval. Please be aware that upon EPA receipt and review of the submittals, EPA may request any additional information necessary to establish that the work has been completed in accordance with 40 CFR Part 761, the Notification, and this Approval.

Sincerely,

A handwritten signature in black ink, appearing to read "James T. Owens III", followed by a horizontal line and a small flourish.

James T. Owens III, Director  
Office of Site Remediation & Restoration

cc Amy Martin, Woodard & Curran  
Stacy Ladner, MEDEP  
File

Attachment 1 – PCB Approval Conditions

**ATTACHMENT 1: PCB CLEANUP AND DISPOSAL APPROVAL CONDITIONS  
UNIVERSITY OF MAINE FIELD HOUSE (the Site)  
UNIVERSITY OF MAINE  
ORONO, MAINE**

**GENERAL CONDITIONS**

1. This Approval is granted under the authority of Section 6(e) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2605(e), and the PCB regulations at 40 CFR Part 761, and applies solely to the *PCB bulk product waste* and the *PCB remediation waste* located at the Site and identified in the Notification.
2. The University of Maine (UMaine) shall conduct on-site activities in accordance with the conditions of this Approval and with the Notification.
3. In the event that the cleanup plan described in the Notification differs from the conditions specified in this Approval, the conditions of this Approval shall govern.
4. The terms and abbreviations used herein shall have the meanings as defined in 40 CFR § 761.3 unless otherwise defined within this Approval.
5. UMaine must comply with all applicable federal, state and local regulations in the storage, handling, and disposal of all PCB wastes, including PCBs, PCB Items and decontamination wastes generated under this Approval. In the event of a new spill during response actions, UMaine shall contact EPA within 24 hours for direction on PCB cleanup and sampling requirements.
6. UMaine is responsible for the actions of all officers, employees, agents, contractors, subcontractors, and others who are involved in activities conducted under this Approval. If at any time UMaine has or receives information indicating that UMaine or any other person has failed, or may have failed, to comply with any provision of this Approval, it must report the information to EPA in writing within 24 hours of having or receiving the information.
7. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by UMaine are authorized to conduct the activities set forth in the Notification. UMaine is responsible for ensuring that its selected transporters and disposal facilities are authorized to conduct these activities in accordance with all applicable federal, state and local statutes and regulations.
8. This Approval does not: 1) waive or compromise EPA's enforcement and regulatory authority; 2) release UMaine from compliance with any applicable requirements of federal, state or local law; or 3) release UMaine from liability for, or otherwise resolve, any violations of federal, state or local law.

9. Failure to comply with the Approval conditions specified herein shall constitute a violation of the requirement in § 761.50(a) to store or dispose of PCB waste in accordance with 40 CFR Part 761 Subpart D.

#### **NOTIFICATION AND CERTIFICATION CONDITIONS**

10. This Approval may be revoked if the EPA does not receive written notification from UMaine of its acceptance of the conditions of this Approval within 10 business days of receipt.

#### **CLEANUP AND DISPOSAL CONDITIONS**

11. To the maximum extent practical, engineering controls, such as barriers, and removal techniques, such as the use of HEPA ventilated tools, shall be utilized during removal processes. In addition, to the maximum extent possible, disposable equipment and materials, including PPE, will be used to reduce the amount of decontamination necessary.
12. PCB-contaminated materials shall be decontaminated and confirmatory sampling and analysis shall be conducted as described below:
  - a. All visible residues of PCB-contaminated caulk and associated *porous* and *non-porous surfaces* (i.e., *PCB bulk product waste*) shall be removed as described in the Notification.
  - b. The cleanup standard for *porous surfaces* (i.e., concrete and brick) shall be less than or equal to ( $\leq$ ) 1 part per million (ppm).
    - i) All post-cleanup verification sampling for *porous surfaces* shall be performed on a bulk basis (i.e., mg/kg) and reported on a dry weight analysis. Verification sampling for *porous surfaces* shall be conducted in accordance with the EPA Region 1 *Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs) Revision 4, May 5, 2011*, at a maximum depth interval of 0.5 inches.
      - (1) Samples shall be collected at a minimum of 1 sample per 10 linear feet (lf) of caulk for the first 25% (4 doors) of the doors. All joint types must be included in this initial sampling as identified on Table 1 of the August 14, 2013 submittal.



- (2) The results of this initial sampling shall be submitted to EPA. If the cleanup standard of  $\leq 1$  ppm is met for all samples, EPA may consider a reduction of the sampling frequency to 1 sample per 20 lf of caulk for the remaining doors.
  - ii) Chemical extraction for PCBs shall be conducted using Methods 3500B/3540C of SW-846; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction/analytical method(s) is validated according to Subpart Q.
  - iii) In the event **any** verification sample exceeds the PCB cleanup standard, UMaine shall contact EPA for a determination on the appropriate verification sampling frequency for the remaining *porous surfaces*.
13. PCB waste (at any concentration) generated as a result of the activities described in the Notification, excluding any decontaminated materials, shall be marked in accordance with 40 CFR § 761.40; stored in a manner consistent with 40 CFR § 761.65; and, disposed of in accordance with 40 CFR § 761.61 or § 761.62, unless otherwise specified below.
- a. Decontamination wastes and residues shall be disposed of in accordance with 40 CFR § 761.79(g)(6).
  - b. Moveable equipment, tools, and sampling equipment shall be decontaminated in accordance with either 40 CFR § 761.79(b)(3)(i)(A), § 761.79(b)(3)(ii)(A), or § 761.79(c)(2).
  - c. PCB-contaminated water generated during decontamination shall be decontaminated in accordance with 40 CFR § 761.79(b)(1) or disposed of under § 761.60.

#### **INSPECTION, MODIFICATION AND REVOCATION CONDITIONS**

14. UMaine shall allow any authorized representative of the Administrator of the EPA to inspect the Site and to inspect records and take samples as may be necessary to determine compliance with the PCB regulations and this Approval. Any refusal by UMaine to allow such an inspection (as authorized by Section 11 of TSCA) shall be grounds for revocation of this Approval.
15. Any proposed modification(s) in the plan, specifications, or information in the Notification must be submitted to EPA no less than 14 calendar days prior to the proposed implementation of the change. Such proposed modifications will be subject to the procedures of 40 CFR § 761.61(a)(3)(ii).

16. Any departure from the conditions of this Approval without prior, written authorization from the EPA may result in the revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.
17. Any misrepresentation or omission of any material fact in the Notification or in any records or reports may result in the EPA's revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.
18. Approval for these activities may be revoked, modified or otherwise altered: if EPA finds a violation of the conditions of this Approval or of 40 CFR Part 761, including EPA's PCB Spill Cleanup Policy, or other applicable rules and regulations; or, if EPA finds that these activities present an unreasonable risk to public health or the environment.

#### **RECORDKEEPING AND REPORTING CONDITIONS**

19. UMaine shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of the cleanup and disposal and the analytical sampling shall be established and maintained by UMaine in one centralized location, until such time as EPA approves in writing a request for an alternative disposition of such records. All records shall be made available for inspection to authorized representatives of EPA.
20. UMaine shall submit a final report as both a hard copy and electronic version, to the EPA within 60 days of completion of the activities authorized under this Approval. At a minimum, this final report shall include: a short narrative of the project activities with photo-documentation; characterization and confirmation sampling analytical results; copies of the accompanying analytical chains of custody; field and laboratory quality control/quality assurance checks; an estimate of the quantity of PCB waste disposed of; copies of manifests and bills of lading; and copies of certificates of disposal or similar certifications issued by the disposer.
21. Required submittals shall be mailed to:

Kimberly N. Tisa, PCB Coordinator  
United States Environmental Protection Agency  
5 Post Office Square, Suite 100 – (OSRR07-2)  
Boston, Massachusetts 02109-3912  
Telephone: (617) 918-1527  
Facsimile: (617) 918-0527

22. No record, report or communication required under this Approval shall qualify as a self-audit or voluntary disclosure under EPA audit, self-disclosure or penalty policies.

\*\*\*\*\*

**END OF ATTACHMENT 1**

## **APPENDIX B: LABORATORY ANALYTICAL REPORTS**

August 30, 2013

Amy Martin  
Woodard & Curran - Portland, ME  
41 Hutchins Drive  
Portland, ME 04102

Project Location: UMAINE - Field House  
Client Job Number:  
Project Number: 224329.04  
Laboratory Work Order Number: 13H0971

Enclosed are results of analyses for samples received by the laboratory on August 26, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley  
Project Manager

Woodard & Curran - Portland, ME  
41 Hutchins Drive  
Portland, ME 04102  
ATTN: Amy Martin

REPORT DATE: 8/30/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 224329.04

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13H0971

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: UMAINE - Field House

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
UMFH-VBC-013	13H0971-01	Concrete		SW-846 8082A	
UMFH-VBC-014	13H0971-02	Concrete		SW-846 8082A	
UMFH-VBB-015	13H0971-03	Brick		SW-846 8082A	
UMFH-VBB-016	13H0971-04	Brick		SW-846 8082A	
UMFH-VBC-035	13H0971-05	Concrete		SW-846 8082A	
UMFH-VBB-036	13H0971-06	Brick		SW-846 8082A	
UMFH-VBC-037	13H0971-07	Concrete		SW-846 8082A	
UMFH-VBB-038	13H0971-08	Brick		SW-846 8082A	
UMFH-VBC-039	13H0971-09	Concrete		SW-846 8082A	
UMFH-VBB-040	13H0971-10	Brick		SW-846 8082A	



#### CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

#### Qualifications:

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Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

#### Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]

B079657-MS1, B079657-MSD1

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The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian  
Laboratory Manager

Project Location: UMAINE - Field House

Sample Description:

Work Order: 13H0971

Date Received: 8/26/2013

Field Sample #: UMFH-VBC-013

Sampled: 8/23/2013 10:55

Sample ID: 13H0971-01

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:28	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:28	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:28	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:28	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:28	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:28	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:28	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:28	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:28	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	102	30-150							
Decachlorobiphenyl [2]	92.9	30-150							
Tetrachloro-m-xylene [1]	96.9	30-150							
Tetrachloro-m-xylene [2]	99.8	30-150							

Project Location: UMAINE - Field House

Sample Description:

Work Order: 13H0971

Date Received: 8/26/2013

Field Sample #: UMFH-VBC-014

Sampled: 8/23/2013 11:15

Sample ID: 13H0971-02

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:41	MJC
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:41	MJC
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:41	MJC
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:41	MJC
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:41	MJC
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:41	MJC
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:41	MJC
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:41	MJC
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:41	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	103	30-150							
Decachlorobiphenyl [2]	95.0	30-150							
Tetrachloro-m-xylene [1]	104	30-150							
Tetrachloro-m-xylene [2]	109	30-150							

Project Location: UMAINE - Field House

Sample Description:

Work Order: 13H0971

Date Received: 8/26/2013

Field Sample #: UMFH-VBB-015

Sampled: 8/23/2013 10:50

Sample ID: 13H0971-03

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:54	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:54	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:54	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:54	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:54	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:54	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:54	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:54	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 0:54	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	99.7	30-150							
Decachlorobiphenyl [2]	92.1	30-150							
Tetrachloro-m-xylene [1]	98.6	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

Project Location: UMAINE - Field House

Sample Description:

Work Order: 13H0971

Date Received: 8/26/2013

Field Sample #: UMFH-VBB-016

Sampled: 8/23/2013 11:05

Sample ID: 13H0971-04

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:07	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:07	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:07	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:07	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:07	MJC
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:07	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:07	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:07	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:07	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	99.6	30-150						8/29/13 1:07	
Decachlorobiphenyl [2]	91.7	30-150						8/29/13 1:07	
Tetrachloro-m-xylene [1]	97.9	30-150						8/29/13 1:07	
Tetrachloro-m-xylene [2]	101	30-150						8/29/13 1:07	

Project Location: UMAINE - Field House

Sample Description:

Work Order: 13H0971

Date Received: 8/26/2013

Field Sample #: UMFH-VBC-035

Sampled: 8/23/2013 11:35

Sample ID: 13H0971-05

Sample Matrix: Concrete

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:20	MJC
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:20	MJC
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:20	MJC
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:20	MJC
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:20	MJC
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:20	MJC
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:20	MJC
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:20	MJC
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:20	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	83.1	30-150						8/29/13 1:20	
Decachlorobiphenyl [2]	76.2	30-150						8/29/13 1:20	
Tetrachloro-m-xylene [1]	85.4	30-150						8/29/13 1:20	
Tetrachloro-m-xylene [2]	87.9	30-150						8/29/13 1:20	

Project Location: UMAINE - Field House

Sample Description:

Work Order: 13H0971

Date Received: 8/26/2013

Field Sample #: UMFH-VBB-036

Sampled: 8/23/2013 11:40

Sample ID: 13H0971-06

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:33	MJC
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:33	MJC
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:33	MJC
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:33	MJC
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:33	MJC
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:33	MJC
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:33	MJC
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:33	MJC
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:33	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	103	30-150							
Decachlorobiphenyl [2]	94.8	30-150							
Tetrachloro-m-xylene [1]	98.4	30-150							
Tetrachloro-m-xylene [2]	102	30-150							



Project Location: UMAINE - Field House

Sample Description:

Work Order: 13H0971

Date Received: 8/26/2013

Field Sample #: UMFH-VBC-037

Sampled: 8/23/2013 11:30

Sample ID: 13H0971-07

Sample Matrix: Concrete

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:45	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:45	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:45	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:45	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:45	MJC
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:45	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:45	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:45	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:45	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	106	30-150							
Decachlorobiphenyl [2]	99.3	30-150							
Tetrachloro-m-xylene [1]	108	30-150							
Tetrachloro-m-xylene [2]	113	30-150							

Project Location: UMAINE - Field House

Sample Description:

Work Order: 13H0971

Date Received: 8/26/2013

Field Sample #: UMFH-VBB-038

Sampled: 8/23/2013 11:25

Sample ID: 13H0971-08

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:58	MJC
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:58	MJC
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:58	MJC
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:58	MJC
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:58	MJC
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:58	MJC
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:58	MJC
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:58	MJC
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 1:58	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	92.2	30-150						8/29/13 1:58	
Decachlorobiphenyl [2]	84.6	30-150						8/29/13 1:58	
Tetrachloro-m-xylene [1]	95.5	30-150						8/29/13 1:58	
Tetrachloro-m-xylene [2]	98.6	30-150						8/29/13 1:58	

Project Location: UMAINE - Field House

Sample Description:

Work Order: 13H0971

Date Received: 8/26/2013

Field Sample #: UMFH-VBC-039

Sampled: 8/23/2013 10:40

Sample ID: 13H0971-09

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/27/13	8/29/13 11:48	MJC
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/27/13	8/29/13 11:48	MJC
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/27/13	8/29/13 11:48	MJC
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/27/13	8/29/13 11:48	MJC
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/27/13	8/29/13 11:48	MJC
Aroclor-1254 [1]	2.2	0.49	mg/Kg	5		SW-846 8082A	8/27/13	8/29/13 11:48	MJC
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/27/13	8/29/13 11:48	MJC
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/27/13	8/29/13 11:48	MJC
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/27/13	8/29/13 11:48	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	97.5	30-150							
Decachlorobiphenyl [2]	83.8	30-150							
Tetrachloro-m-xylene [1]	102	30-150							
Tetrachloro-m-xylene [2]	99.3	30-150							

Project Location: UMAINE - Field House

Sample Description:

Work Order: 13H0971

Date Received: 8/26/2013

Field Sample #: UMFH-VBB-040

Sampled: 8/23/2013 10:30

Sample ID: 13H0971-10

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 2:24	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 2:24	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 2:24	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 2:24	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 2:24	MJC
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 2:24	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 2:24	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 2:24	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/27/13	8/29/13 2:24	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	92.5	30-150							
Decachlorobiphenyl [2]	84.9	30-150							
Tetrachloro-m-xylene [1]	88.0	30-150							
Tetrachloro-m-xylene [2]	90.4	30-150							

**Sample Extraction Data**

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13H0971-01 [UMFH-VBC-013]	B079657	2.00	10.0	08/27/13
13H0971-02 [UMFH-VBC-014]	B079657	2.04	10.0	08/27/13
13H0971-03 [UMFH-VBB-015]	B079657	2.01	10.0	08/27/13
13H0971-04 [UMFH-VBB-016]	B079657	2.03	10.0	08/27/13
13H0971-05 [UMFH-VBC-035]	B079657	2.05	10.0	08/27/13
13H0971-06 [UMFH-VBB-036]	B079657	2.06	10.0	08/27/13
13H0971-07 [UMFH-VBC-037]	B079657	2.03	10.0	08/27/13
13H0971-08 [UMFH-VBB-038]	B079657	2.09	10.0	08/27/13
13H0971-09 [UMFH-VBC-039]	B079657	2.06	10.0	08/27/13
13H0971-10 [UMFH-VBB-040]	B079657	2.02	10.0	08/27/13

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B079657 - SW-846 3540C**
**Blank (B079657-BLK1)**

Prepared: 08/27/13 Analyzed: 08/28/13

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.922		mg/Kg	1.00		92.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.858		mg/Kg	1.00		85.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.901		mg/Kg	1.00		90.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.923		mg/Kg	1.00		92.3	30-150			

**LCS (B079657-BS1)**

Prepared: 08/27/13 Analyzed: 08/28/13

Aroclor-1016	0.27	0.10	mg/Kg	0.250		109	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		110	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		95.1	40-140			
Surrogate: Decachlorobiphenyl	0.943		mg/Kg	1.00		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.885		mg/Kg	1.00		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.900		mg/Kg	1.00		90.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.929		mg/Kg	1.00		92.9	30-150			

**LCS Dup (B079657-BSD1)**

Prepared: 08/27/13 Analyzed: 08/28/13

Aroclor-1016	0.30	0.10	mg/Kg	0.250		120	40-140	9.73	30	
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		119	40-140	7.12	30	
Aroclor-1260	0.28	0.10	mg/Kg	0.250		111	40-140	4.91	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		100	40-140	5.48	30	
Surrogate: Decachlorobiphenyl	0.954		mg/Kg	1.00		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.896		mg/Kg	1.00		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.904		mg/Kg	1.00		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.928		mg/Kg	1.00		92.8	30-150			

## QUALITY CONTROL

## Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch B079657 - SW-846 3540C

Matrix Spike (B079657-MS1)		Source: 13H0971-01		Prepared: 08/27/13 Analyzed: 08/29/13						
Aroclor-1016	0.34	0.10	mg/Kg	0.250	0.0	136	40-140			
Aroclor-1016 [2C]	0.41	0.10	mg/Kg	0.250	0.0	163 *	40-140			MS-12
Aroclor-1260	0.28	0.10	mg/Kg	0.250	0.0	111	40-140			
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250	0.0	102	40-140			
Surrogate: Decachlorobiphenyl	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.959		mg/Kg	1.00		95.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.08		mg/Kg	1.00		108	30-150			

Matrix Spike Dup (B079657-MSD1)		Source: 13H0971-01		Prepared: 08/27/13 Analyzed: 08/29/13						
Aroclor-1016	0.29	0.10	mg/Kg	0.250	0.0	118	40-140	14.6	50	
Aroclor-1016 [2C]	0.36	0.10	mg/Kg	0.250	0.0	145 *	40-140	11.7	50	MS-12
Aroclor-1260	0.27	0.10	mg/Kg	0.250	0.0	107	40-140	3.29	50	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250	0.0	100	40-140	2.04	50	
Surrogate: Decachlorobiphenyl	0.989		mg/Kg	1.00		98.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.908		mg/Kg	1.00		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.945		mg/Kg	1.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.972		mg/Kg	1.00		97.2	30-150			



**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



**con-test**  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

Company Name: Woodard & Curran

Telephone: 207-774-2112

Address: 41 Hutchins Dr

Project # 224329.04

Attention: Portland ME 04102

Client PO#

Project Location: UMAINE - Field House

DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ WEBSITE

Sampled By: Charlie Smith

Email: AMartin@WoodardCurran.com

Project Proposal Provided? (for billing purposes)  
☐ yes ☐ no

Format: ☒ PDF ☒ EXCEL ☐ GIS

Collection  
☐ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code	Final Code
01	UMFH-VBC-013	8/23/13	1055		X	C	✓
02	UMFH-VBC-014		1115			C	
03	UMFH-VBC-015		1050			B	
04	UMFH-VBC-016		1105			B	
05	UMFH-VBC-035		1135			C	
06	UMFH-VBC-036		1140			B	
07	UMFH-VBC-037		1130			C	
08	UMFH-VBC-038		1125			B	
09	UMFH-VBC-039		1040			C	
10	UMFH-VBC-040		1030			B	

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:  
H - High; M - Medium; L - Low; C - Clean; U - Unknown

ANALYSIS REQUESTED

# of Containers  
\*\* Preservation  
\*\*\* Container Code

Dissolved Metals  
☐ Field Filtered  
☐ Lab to Filter

\*\*\*Cont. Code:

A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summa can  
T=tetlar bag  
O=Other

\*\*Preservation  
I = Iced  
H = HCL  
M = Methanol  
N = Nitric Acid  
S = Sulfuric Acid  
B = Sodium bisulfate  
X = Na hydroxide  
T = Na thiosulfate  
O = Other

\*Matrix Code:  
GW = groundwater  
WW = wastewater  
DW = drinking water  
A = air  
S = soil/solid  
SL = sludge  
O = other

Is your project MCP or RCP?  
☐ MCP Form Required  
☐ RCP Form Required  
☐ MA State DW Form Required  
PWSID # \_\_\_\_\_  
WB/DBE Certified

Relinquished by: (signature) [Signature] Date/Time: 8/23/13

Turnaround <sup>††</sup>  
☐ 7-Day  
☒ 10-Day  
Other: 5 day  
RUSH <sup>†</sup>

Detection Limit Requirements  
Massachusetts: \_\_\_\_\_  
Connecticut: \_\_\_\_\_

Relinquished by: (signature) [Signature] Date/Time: 8/23/13

Received by: (signature) [Signature] Date/Time: 8/26/13

Received by: (signature) [Signature] Date/Time: 12/4/15

Relinquished by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

1340971

CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Page \_\_\_\_ of \_\_\_\_

**803741392569**Ship (P/U) date :  
**Fri 8/23/2013 12:54 pm**

BAN US

**Delivered**

Signed for by: P. PLAKE

Actual delivery :  
**Mon 8/26/2013 9:37 am**

MA US

**Travel History**

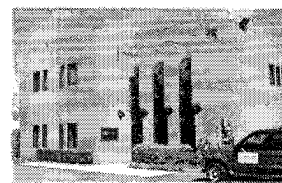
Date/Time	Activity	Location
- 8/26/2013 - Monday		
9:37 am	Delivered	MA
7:36 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:48 am	At local FedEx facility	WINDSOR LOCKS, CT
- 8/24/2013 - Saturday		
10:02 pm	At destination sort facility	EAST GRANBY, CT
6:30 pm	Departed FedEx location	NEWARK, NJ
- 8/23/2013 - Friday		
5:57 pm	Left FedEx origin facility	BANGOR, ME
12:54 pm	Picked up	BANGOR, ME

Local Scan Time

**Shipment Facts**

Tracking number	803741392569	Service	FedEx Priority Overnight
Weight	10 lbs	Dimensions	12x6x11 in.
Delivered To	Receptionist/Front Desk	Total pieces	1
Total shipment weight	10 lbs / 4.5 kgs	Packaging	Your Packaging
Special handling section	Deliver Weekday		

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



## Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: PB DATE: 8.26.13

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☒ In Cooler(s) ☐

Were the samples received in Temperature Compliance of (2-6°C)? Yes No

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 21.9

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

Log m

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved  
Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 <del>oz</del> amber/clear jar	<u>10</u>
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol \_\_\_\_\_

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_

Rev. 3 May 2012 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

September 8, 2013

Amy Martin  
Woodard & Curran - Portland, ME  
41 Hutchins Drive  
Portland, ME 04102

Project Location: UMaine - Field House  
Client Job Number:  
Project Number: 224329.04  
Laboratory Work Order Number: 13H1165

Enclosed are results of analyses for samples received by the laboratory on August 30, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley  
Project Manager

Woodard & Curran - Portland, ME  
41 Hutchins Drive  
Portland, ME 04102  
ATTN: Amy Martin

REPORT DATE: 9/8/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 224329.04

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13H1165

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: UMaine - Field House

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
UMFH-VBC-005	13H1165-01	Concrete		SW-846 8082A	
UMFH-VBC-006	13H1165-02	Concrete		SW-846 8082A	
UMFH-VBC-007	13H1165-03	Concrete		SW-846 8082A	
UMFH-VBB-008	13H1165-04	Brick		SW-846 8082A	
UMFH-VBB-009	13H1165-05	Brick		SW-846 8082A	
UMFH-VBC-010	13H1165-06	Concrete		SW-846 8082A	
UMFH-VBB-011	13H1165-07	Brick		SW-846 8082A	
UMFH-VBC-012	13H1165-08	Concrete		SW-846 8082A	
UMFH-VBC-023	13H1165-09	Concrete		SW-846 8082A	
UMFH-VBB-024	13H1165-10	Brick		SW-846 8082A	
UMFH-VBB-025	13H1165-11	Brick		SW-846 8082A	
UMFH-VBB-026	13H1165-12	Brick		SW-846 8082A	

### CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

#### Qualifications:

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Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.

#### Analyte & Samples(s) Qualified:

Aroclor-1254, Aroclor-1254 [2C]

13H1165-04[UMFH-VBB-008], 13H1165-12[UMFH-VBB-026]

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The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian  
Laboratory Manager



Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBC-005

Sampled: 8/29/2013 15:15

Sample ID: 13H1165-01

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:34	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:34	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:34	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:34	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:34	MJC
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:34	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:34	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:34	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:34	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	92.8	30-150							
Decachlorobiphenyl [2]	97.6	30-150							
Tetrachloro-m-xylene [1]	86.2	30-150							
Tetrachloro-m-xylene [2]	92.5	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBC-006

Sampled: 8/29/2013 15:20

Sample ID: 13H1165-02

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:47	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:47	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:47	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:47	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:47	MJC
Aroclor-1254 [1]	0.11	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:47	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:47	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:47	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 15:47	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	108	30-150							
Decachlorobiphenyl [2]	114	30-150							
Tetrachloro-m-xylene [1]	101	30-150							
Tetrachloro-m-xylene [2]	111	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBC-007

Sampled: 8/29/2013 15:30

Sample ID: 13H1165-03

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:00	MJC
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:00	MJC
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:00	MJC
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:00	MJC
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:00	MJC
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:00	MJC
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:00	MJC
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:00	MJC
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:00	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	90.3	30-150							
Decachlorobiphenyl [2]	95.3	30-150							
Tetrachloro-m-xylene [1]	88.8	30-150							
Tetrachloro-m-xylene [2]	95.8	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBB-008

Sampled: 8/29/2013 15:35

Sample ID: 13H1165-04

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:13	MJC
Aroclor-1221 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:13	MJC
Aroclor-1232 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:13	MJC
Aroclor-1242 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:13	MJC
Aroclor-1248 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:13	MJC
Aroclor-1254 [1]	0.16	0.085	mg/Kg	1	O-04	SW-846 8082A	8/30/13	9/4/13 16:13	MJC
Aroclor-1260 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:13	MJC
Aroclor-1262 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:13	MJC
Aroclor-1268 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:13	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	87.6	30-150							
Decachlorobiphenyl [2]	92.3	30-150							
Tetrachloro-m-xylene [1]	85.4	30-150							
Tetrachloro-m-xylene [2]	92.0	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBB-009

Sampled: 8/29/2013 15:45

Sample ID: 13H1165-05

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:25	MJC
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:25	MJC
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:25	MJC
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:25	MJC
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:25	MJC
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:25	MJC
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:25	MJC
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:25	MJC
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:25	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	79.0	30-150							
Decachlorobiphenyl [2]	81.8	30-150							
Tetrachloro-m-xylene [1]	74.7	30-150							
Tetrachloro-m-xylene [2]	80.5	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBC-010

Sampled: 8/29/2013 15:50

Sample ID: 13H1165-06

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:38	MJC
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:38	MJC
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:38	MJC
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:38	MJC
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:38	MJC
Aroclor-1254 [2]	0.84	0.093	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:38	MJC
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:38	MJC
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:38	MJC
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:38	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	121	30-150							
Decachlorobiphenyl [2]	128	30-150							
Tetrachloro-m-xylene [1]	118	30-150							
Tetrachloro-m-xylene [2]	133	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBB-011

Sampled: 8/29/2013 16:00

Sample ID: 13H1165-07

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:51	MJC
Aroclor-1221 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:51	MJC
Aroclor-1232 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:51	MJC
Aroclor-1242 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:51	MJC
Aroclor-1248 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:51	MJC
Aroclor-1254 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:51	MJC
Aroclor-1260 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:51	MJC
Aroclor-1262 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:51	MJC
Aroclor-1268 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 16:51	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	94.4	30-150							
Decachlorobiphenyl [2]	99.3	30-150							
Tetrachloro-m-xylene [1]	92.5	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBC-012

Sampled: 8/29/2013 16:05

Sample ID: 13H1165-08

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:04	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:04	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:04	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:04	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:04	MJC
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:04	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:04	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:04	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:04	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	117	30-150							
Decachlorobiphenyl [2]	123	30-150							
Tetrachloro-m-xylene [1]	113	30-150							
Tetrachloro-m-xylene [2]	125	30-150							



Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBC-023

Sampled: 8/29/2013 16:10

Sample ID: 13H1165-09

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:17	MJC
Aroclor-1221 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:17	MJC
Aroclor-1232 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:17	MJC
Aroclor-1242 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:17	MJC
Aroclor-1248 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:17	MJC
Aroclor-1254 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:17	MJC
Aroclor-1260 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:17	MJC
Aroclor-1262 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:17	MJC
Aroclor-1268 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 17:17	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	85.1	30-150							
Decachlorobiphenyl [2]	89.6	30-150							
Tetrachloro-m-xylene [1]	79.8	30-150							
Tetrachloro-m-xylene [2]	86.3	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBB-024

Sampled: 8/29/2013 16:15

Sample ID: 13H1165-10

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:09	MJC
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:09	MJC
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:09	MJC
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:09	MJC
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:09	MJC
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:09	MJC
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:09	MJC
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:09	MJC
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:09	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	92.9	30-150							
Decachlorobiphenyl [2]	97.1	30-150							
Tetrachloro-m-xylene [1]	86.0	30-150							
Tetrachloro-m-xylene [2]	92.8	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBB-025

Sampled: 8/29/2013 16:25

Sample ID: 13H1165-11

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:22	MJC
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:22	MJC
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:22	MJC
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:22	MJC
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:22	MJC
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:22	MJC
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:22	MJC
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:22	MJC
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:22	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	98.9	30-150							
Decachlorobiphenyl [2]	103	30-150							
Tetrachloro-m-xylene [1]	88.8	30-150							
Tetrachloro-m-xylene [2]	96.2	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 13H1165

Date Received: 8/30/2013

Field Sample #: UMFH-VBB-026

Sampled: 8/29/2013 16:30

Sample ID: 13H1165-12

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:34	MJC
Aroclor-1221 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:34	MJC
Aroclor-1232 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:34	MJC
Aroclor-1242 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:34	MJC
Aroclor-1248 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:34	MJC
Aroclor-1254 [2]	0.096	0.090	mg/Kg	1	O-04	SW-846 8082A	8/30/13	9/4/13 18:34	MJC
Aroclor-1260 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:34	MJC
Aroclor-1262 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:34	MJC
Aroclor-1268 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/30/13	9/4/13 18:34	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	92.8		30-150				9/4/13 18:34		
Decachlorobiphenyl [2]	96.4		30-150				9/4/13 18:34		
Tetrachloro-m-xylene [1]	81.3		30-150				9/4/13 18:34		
Tetrachloro-m-xylene [2]	88.0		30-150				9/4/13 18:34		

**Sample Extraction Data**

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13H1165-01 [UMFH-VBC-005]	B079944	2.02	10.0	08/30/13
13H1165-02 [UMFH-VBC-006]	B079944	2.19	10.0	08/30/13
13H1165-03 [UMFH-VBC-007]	B079944	2.06	10.0	08/30/13
13H1165-04 [UMFH-VBB-008]	B079944	2.36	10.0	08/30/13
13H1165-05 [UMFH-VBB-009]	B079944	2.04	10.0	08/30/13
13H1165-06 [UMFH-VBC-010]	B079944	2.16	10.0	08/30/13
13H1165-07 [UMFH-VBB-011]	B079944	2.27	10.0	08/30/13
13H1165-08 [UMFH-VBC-012]	B079944	2.19	10.0	08/30/13
13H1165-09 [UMFH-VBC-023]	B079944	2.24	10.0	08/30/13
13H1165-10 [UMFH-VBB-024]	B079944	2.05	10.0	08/30/13
13H1165-11 [UMFH-VBB-025]	B079944	2.13	10.0	08/30/13
13H1165-12 [UMFH-VBB-026]	B079944	2.22	10.0	08/30/13

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B079944 - SW-846 3540C**
**Blank (B079944-BLK1)**

Prepared: 08/30/13 Analyzed: 09/04/13

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.915		mg/Kg	1.00		91.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.936		mg/Kg	1.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.863		mg/Kg	1.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.924		mg/Kg	1.00		92.4	30-150			

**LCS (B079944-BS1)**

Prepared: 08/30/13 Analyzed: 09/04/13

Aroclor-1016	0.27	0.10	mg/Kg	0.250		108	40-140			
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250		100	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140			
Surrogate: Decachlorobiphenyl	0.964		mg/Kg	1.00		96.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.993		mg/Kg	1.00		99.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.918		mg/Kg	1.00		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.981		mg/Kg	1.00		98.1	30-150			

**LCS Dup (B079944-BSD1)**

Prepared: 08/30/13 Analyzed: 09/04/13

Aroclor-1016	0.27	0.10	mg/Kg	0.250		106	40-140	1.72	30	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140	2.69	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		95.8	40-140	4.64	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140	3.34	30	
Surrogate: Decachlorobiphenyl	0.900		mg/Kg	1.00		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.931		mg/Kg	1.00		93.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.854		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.914		mg/Kg	1.00		91.4	30-150			

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B079944 - SW-846 3540C**
**Matrix Spike (B079944-MS1)**
**Source: 13H1165-01**

Prepared: 08/30/13 Analyzed: 09/04/13

Aroclor-1016	0.26	0.10	mg/Kg	0.250	0.0	106	40-140			
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250	0.0	108	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250	0.0	100	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250	0.0	100	40-140			
Surrogate: Decachlorobiphenyl	0.838		mg/Kg	1.00		83.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.938		mg/Kg	1.00		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.854		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.932		mg/Kg	1.00		93.2	30-150			

**Matrix Spike Dup (B079944-MSD1)**
**Source: 13H1165-01**

Prepared: 08/30/13 Analyzed: 09/04/13

Aroclor-1016	0.30	0.10	mg/Kg	0.250	0.0	119	40-140	12.1	50	
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250	0.0	120	40-140	10.5	50	
Aroclor-1260	0.29	0.10	mg/Kg	0.250	0.0	114	40-140	13.2	50	
Aroclor-1260 [2C]	0.30	0.10	mg/Kg	0.250	0.0	119	40-140	16.8	50	
Surrogate: Decachlorobiphenyl	0.939		mg/Kg	1.00		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.03		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.907		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.991		mg/Kg	1.00		99.1	30-150			

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
O-04	Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



**con-test**  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

Rev 04.05.12

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Page 1 of 2

Company Name: Woodard & Curran

Telephone: 207-774-2112

Address: 41 Hutchins Dr

Project # 224329.04

Portland, ME 04102

Attention: Amy Martin

Client PO#

Project Location: UMAINE - Field House

DATA DELIVERY (check all that apply)

☐ FAX ☒ EMAIL ☐ WEBSITE

Sampled By: Charlie Smith

Email:

A.Martin@WoodardCurran.com

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No  
proposal date

Format:

☒ OF ☒ EXCEL ☐ GIS  
☐ OTHER

**Collection**

☐ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code	Unit Code
01	UMFH-VBC-005	8/29/13	1515				
02	-VBC-006		1520				
03	-VBC-007		1530				
04	-VBC-008		1535				
05	-VBC-009		1545				
06	-VBC-010		1550				
07	-VBC-011		1600				
08	-VBC-012		1605				
09	-VBC-023		1610				
10	-VBC-024		1615				

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature]

Date/Time: 8/29/13

Turnaround <sup>††</sup>  
☐ 7-Day  
☒ 10-Day  
☐ 14-Day  
☐ 172-Hr ☐ 14-Day  
Require lab approval

Detection Limit Requirements  
Massachusetts: \_\_\_\_\_  
Connecticut: \_\_\_\_\_  
Other: Maine

Is your project MCP or RCP?  
☐ MCP Form Required  
☐ RCP Form Required  
☐ MA State DW Form Required  
PWSID # \_\_\_\_\_

Received by: (signature) [Signature]

Date/Time: 8:30:15:39:39

Relinquished by: (signature)

Received by: (signature)

Date/Time:

**ANALYSIS REQUESTED**

Dissolved Metals

☐ Field Filtered  
☐ Lab to Filter

**\*\*Cont. Code:**

A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summa can  
T=teelair bag  
O=Other

**\*\*Preservation**

I = Iced  
H = HCL  
M = Methanol  
N = Nitric Acid  
S = Sulfuric Acid  
B = Sodium bisulfate  
X = Na hydroxide  
T = Na thiosulfate  
O = Other

**\*Matrix Code:**

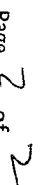
GW= groundwater  
WW= wastewater  
DW= drinking water  
A = air  
S = soil/solid  
SL = sludge  
O = other soil



NEIAC & AIHA-LAP, LLC  
Accredited  
WB/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



39 Spruce Street  
East Longmeadow MA 01028

39 Spruce Street  
East Longmeadow MA 01028

Page 22 of 24 13H1165\_1 Contest\_Final 09 08 13 0803


**796575659500**

Ship (P/U) date :  
**Thur 8/29/2013 4:12 pm**  
 Somerville, NJ US



**Delivered**  
 Signed for by: P BLAKE

Actual delivery :  
**Fri 8/30/2013 9:29 am**  
 EAST LONGMEADOW, MA US

### Travel History

Date/Time	Activity	Location
<b>- 8/30/2013 - Friday</b>		
9:29 am	Delivered	EAST LONGMEADOW, MA
8:18 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:43 am	At local FedEx facility	WINDSOR LOCKS, CT
3:46 am	Departed FedEx location	NEWARK, NJ
<b>- 8/29/2013 - Thursday</b>		
11:00 pm	Left FedEx origin facility	UNION, NJ
9:31 pm	Arrived at FedEx location	NEWARK, NJ
9:30 pm	Left FedEx origin facility	NEWARK, NJ
4:12 pm	Picked up	NEWARK, NJ
12:04 pm	Shipment information sent to FedEx	

Local Scan Time

### Shipment Facts

<b>Tracking number</b>	796575659500	<b>Service</b>	FedEx Priority Overnight
<b>Weight</b>	6 lbs	<b>Dimensions</b>	12x12x16 in.
<b>Signature services</b>	Direct signature required	<b>Delivered To</b>	Shipping/Receiving
<b>Total pieces</b>	1	<b>Total shipment weight</b>	6 lbs / 2.7 kgs
<b>Shipper reference</b>	6140	<b>Packaging</b>	Your Packaging
<b>Special handling section</b>	Deliver Weekday, Direct Signature Required		

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



### Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: PB DATE: 8.30.13

1) Was the chain(s) of custody relinquished and signed? ☒ Yes No No CoC Included

2) Does the chain agree with the samples? ☒ Yes No

If not, explain:

3) Are all the samples in good condition?

If not, explain:

☒ Yes

No

one sample received  
broken but no sample  
was lost.

4) How were the samples received:

On Ice ☒

Direct from Sampling ☐

Ambient ☐

In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? ☒ Yes No N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun \_\_\_\_\_

5) Are there Dissolved samples for the lab to filter? Yes ☒ No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes ☒ No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

log in

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved  
Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes ☒ No N/A

9) Do all samples have the proper Base pH: Yes ☒ No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No ☒ N/A

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	1
500 mL Amber		4 oz amber/clear jar	11
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol \_\_\_\_\_

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_

Rev. 3 May 2012 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

September 16, 2013

Amy Martin  
Woodard & Curran - Portland, ME  
41 Hutchins Drive  
Portland, ME 04102

Project Location: UMaine - Field House  
Client Job Number:  
Project Number: 224329.04  
Laboratory Work Order Number: 13I0205

Enclosed are results of analyses for samples received by the laboratory on September 7, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley  
Project Manager

Woodard & Curran - Portland, ME  
41 Hutchins Drive  
Portland, ME 04102  
ATTN: Amy Martin

REPORT DATE: 9/16/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 224329.04

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 1310205

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: UMaine - Field House

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
UMFH-VBC-027	1310205-01	Concrete		SW-846 8082A	
UMFH-VBB-028	1310205-02	Concrete		SW-846 8082A	
UMFH-VBC-029	1310205-03	Concrete		SW-846 8082A	
UMFH-VBB-030	1310205-04	Concrete		SW-846 8082A	
UMFH-VBC-031	1310205-05	Concrete		SW-846 8082A	
UMFH-VBB-032	1310205-06	Concrete		SW-846 8082A	
UMFH-VBB-033	1310205-07	Concrete		SW-846 8082A	
UMFH-VBC-034	1310205-08	Concrete		SW-846 8082A	
UMFH-VBC-041	1310205-09	Concrete		SW-846 8082A	
UMFH-VBB-042	1310205-10	Concrete		SW-846 8082A	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8082A****Qualifications:**

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Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

**Analyte & Samples(s) Qualified:****Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]**B080460-MS1, B080460-MSD1

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Sample chromatography does not match reference standard exactly, possibly due to weathering.

**Analyte & Samples(s) Qualified:****Aroclor-1254, Aroclor-1254 [2C]**1310205-09[UMFH-VBC-041]

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Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

**Analyte & Samples(s) Qualified:****Tetrachloro-m-xylene [2C]**B080460-MS1

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The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson  
Laboratory Director



Project Location: UMaine - Field House

Sample Description:

Work Order: 1310205

Date Received: 9/7/2013

Field Sample #: UMFH-VBC-027

Sampled: 9/6/2013 15:55

Sample ID: 1310205-01

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 15:51	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 15:51	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 15:51	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 15:51	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 15:51	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 15:51	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 15:51	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 15:51	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 15:51	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	117	30-150							
Decachlorobiphenyl [2]	126	30-150							
Tetrachloro-m-xylene [1]	128	30-150							
Tetrachloro-m-xylene [2]	130	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 1310205

Date Received: 9/7/2013

Field Sample #: UMFH-VBB-028

Sampled: 9/5/2013 16:05

Sample ID: 1310205-02

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:04	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:04	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:04	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:04	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:04	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:04	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:04	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:04	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:04	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	97.2	30-150							
Decachlorobiphenyl [2]	103	30-150							
Tetrachloro-m-xylene [1]	105	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 1310205

Date Received: 9/7/2013

Field Sample #: UMFH-VBC-029

Sampled: 9/6/2013 16:00

Sample ID: 1310205-03

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:17	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:17	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:17	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:17	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:17	MJC
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:17	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:17	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:17	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:17	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	65.0	30-150							
Decachlorobiphenyl [2]	68.0	30-150							
Tetrachloro-m-xylene [1]	73.6	30-150							
Tetrachloro-m-xylene [2]	73.6	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 1310205

Date Received: 9/7/2013

Field Sample #: UMFH-VBB-030

Sampled: 9/5/2013 16:10

Sample ID: 1310205-04

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:30	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:30	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:30	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:30	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:30	MJC
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:30	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:30	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:30	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:30	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	100	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	108	30-150							
Tetrachloro-m-xylene [2]	108	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 1310205

Date Received: 9/7/2013

Field Sample #: UMFH-VBC-031

Sampled: 9/5/2013 16:20

Sample ID: 1310205-05

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:43	MJC
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:43	MJC
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:43	MJC
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:43	MJC
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:43	MJC
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:43	MJC
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:43	MJC
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:43	MJC
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:43	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	93.5	30-150							
Decachlorobiphenyl [2]	97.9	30-150							
Tetrachloro-m-xylene [1]	98.6	30-150							
Tetrachloro-m-xylene [2]	98.4	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 1310205

Date Received: 9/7/2013

Field Sample #: UMFH-VBB-032

Sampled: 9/5/2013 16:25

Sample ID: 1310205-06

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:56	MJC
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:56	MJC
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:56	MJC
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:56	MJC
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:56	MJC
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:56	MJC
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:56	MJC
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:56	MJC
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 16:56	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	97.9		30-150				9/11/13 16:56		
Decachlorobiphenyl [2]	102		30-150				9/11/13 16:56		
Tetrachloro-m-xylene [1]	93.1		30-150				9/11/13 16:56		
Tetrachloro-m-xylene [2]	92.9		30-150				9/11/13 16:56		

Project Location: UMaine - Field House

Sample Description:

Work Order: 1310205

Date Received: 9/7/2013

Field Sample #: UMFH-VBB-033

Sampled: 9/6/2013 16:10

Sample ID: 1310205-07

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:09	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:09	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:09	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:09	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:09	MJC
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:09	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:09	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:09	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:09	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	96.6	30-150							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	102	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 1310205

Date Received: 9/7/2013

Field Sample #: UMFH-VBC-034

Sampled: 9/5/2013 16:30

Sample ID: 1310205-08

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:22	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:22	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:22	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:22	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:22	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:22	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:22	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:22	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:22	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	89.3	30-150							
Decachlorobiphenyl [2]	93.3	30-150							
Tetrachloro-m-xylene [1]	99.3	30-150							
Tetrachloro-m-xylene [2]	100	30-150							



Project Location: UMaine - Field House

Sample Description:

Work Order: 1310205

Date Received: 9/7/2013

Field Sample #: UMFH-VBC-041

Sampled: 9/5/2013 16:40

Sample ID: 1310205-09

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:35	MJC
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:35	MJC
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:35	MJC
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:35	MJC
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:35	MJC
Aroclor-1254 [2]	0.35	0.098	mg/Kg	1	O-31	SW-846 8082A	9/10/13	9/11/13 17:35	MJC
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:35	MJC
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:35	MJC
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:35	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	100	30-150							
Decachlorobiphenyl [2]	105	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

Project Location: UMaine - Field House

Sample Description:

Work Order: 1310205

Date Received: 9/7/2013

Field Sample #: UMFH-VBB-042

Sampled: 9/5/2013 16:50

Sample ID: 1310205-10

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:48	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:48	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:48	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:48	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:48	MJC
Aroclor-1254 [2]	0.30	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:48	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:48	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:48	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/10/13	9/11/13 17:48	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	99.6	30-150							
Decachlorobiphenyl [2]	104	30-150							
Tetrachloro-m-xylene [1]	106	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

### Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13I0205-01 [UMFH-VBC-027]	B080460	2.00	10.0	09/10/13
13I0205-02 [UMFH-VBB-028]	B080460	2.01	10.0	09/10/13
13I0205-03 [UMFH-VBC-029]	B080460	2.02	10.0	09/10/13
13I0205-04 [UMFH-VBB-030]	B080460	2.02	10.0	09/10/13
13I0205-05 [UMFH-VBC-031]	B080460	2.04	10.0	09/10/13
13I0205-06 [UMFH-VBB-032]	B080460	2.06	10.0	09/10/13
13I0205-07 [UMFH-VBB-033]	B080460	2.02	10.0	09/10/13
13I0205-08 [UMFH-VBC-034]	B080460	2.01	10.0	09/10/13
13I0205-09 [UMFH-VBC-041]	B080460	2.04	10.0	09/10/13
13I0205-10 [UMFH-VBB-042]	B080460	2.02	10.0	09/10/13

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B080460 - SW-846 3540C**
**Blank (B080460-BLK1)**

Prepared: 09/10/13 Analyzed: 09/11/13

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.18		mg/Kg	1.00		118	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	1.01		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.974		mg/Kg	1.00		97.4	30-150			

**LCS (B080460-BS1)**

Prepared: 09/10/13 Analyzed: 09/11/13

Aroclor-1016	0.29	0.10	mg/Kg	0.250		114	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		108	40-140			
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140			
Surrogate: Decachlorobiphenyl	1.19		mg/Kg	1.00		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.07		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	1.01		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.977		mg/Kg	1.00		97.7	30-150			

**LCS Dup (B080460-BSD1)**

Prepared: 09/10/13 Analyzed: 09/11/13

Aroclor-1016	0.31	0.10	mg/Kg	0.250		125	40-140	9.38	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		104	40-140	0.921	30	
Aroclor-1260	0.30	0.10	mg/Kg	0.250		121	40-140	10.9	30	
Aroclor-1260 [2C]	0.30	0.10	mg/Kg	0.250		118	40-140	12.1	30	
Surrogate: Decachlorobiphenyl	1.36		mg/Kg	1.00		136	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.23		mg/Kg	1.00		123	30-150			
Surrogate: Tetrachloro-m-xylene	1.11		mg/Kg	1.00		111	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.03		mg/Kg	1.00		103	30-150			

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B080460 - SW-846 3540C</b>										
<b>Matrix Spike (B080460-MS1)</b>	<b>Source: 13I0205-01</b>			Prepared: 09/10/13 Analyzed: 09/12/13						
<b>Aroclor-1016</b>	0.40	0.10	mg/Kg	0.250	0.0	<b>161</b>	* 40-140			MS-15
<b>Aroclor-1016 [2C]</b>	0.39	0.10	mg/Kg	0.250	0.0	<b>156</b>	* 40-140			MS-15
<b>Aroclor-1260</b>	0.44	0.10	mg/Kg	0.250	0.0	<b>177</b>	* 40-140			MS-15
<b>Aroclor-1260 [2C]</b>	0.41	0.10	mg/Kg	0.250	0.0	<b>165</b>	* 40-140			MS-15
Surrogate: Decachlorobiphenyl	1.34		mg/Kg	1.00		134	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.47		mg/Kg	1.00		147	30-150			
Surrogate: Tetrachloro-m-xylene	1.47		mg/Kg	1.00		147	30-150			
<b>Surrogate: Tetrachloro-m-xylene [2C]</b>	1.54		mg/Kg	1.00		<b>154</b>	* 30-150			S-12
<b>Matrix Spike Dup (B080460-MSD1)</b>	<b>Source: 13I0205-01</b>			Prepared: 09/10/13 Analyzed: 09/12/13						
<b>Aroclor-1016</b>	0.36	0.10	mg/Kg	0.250	0.0	<b>143</b>	* 40-140	12.2	50	MS-15
<b>Aroclor-1016 [2C]</b>	0.35	0.10	mg/Kg	0.250	0.0	<b>142</b>	* 40-140	9.61	50	MS-15
<b>Aroclor-1260</b>	0.36	0.10	mg/Kg	0.250	0.0	<b>143</b>	* 40-140	21.7	50	MS-15
<b>Aroclor-1260 [2C]</b>	0.38	0.10	mg/Kg	0.250	0.0	<b>153</b>	* 40-140	7.79	50	MS-15
Surrogate: Decachlorobiphenyl	1.15		mg/Kg	1.00		115	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.32		mg/Kg	1.00		132	30-150			
Surrogate: Tetrachloro-m-xylene	1.34		mg/Kg	1.00		134	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.38		mg/Kg	1.00		138	30-150			

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
O-31	Sample chromatography does not match reference standard exactly, possibly due to weathering.
S-12	Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



**CONTEST**  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
East longmeadow, MA 01028

Page 1 of 1

Company Name: Woodward & Curran

Telephone: 207-945-5105

Address: 41 Huttons Pt

Project # 7224329.04

Attention: Portland ME 04102

Client PO#

Project Location: UMAINE-FIELDHOURS DOOR-5

DATA DELIVERY (check all that apply)  
☐ FAX ☐ EMAIL ☐ WEBSITE

Sampled By: Charlie Smith

Email:

Project Proposal Provided? (for billing purposes)  
☐ yes ☐ no

Format:

☐ PDF ☐ EXCEL ☐ GIS  
☐ OTHER

Con-Test Lab ID (laboratory use only)

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

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\*Enhanced Data Package

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Con-Test Lab ID (laboratory use only)

Client Sample ID / Description

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Con-Test Lab ID (laboratory use only)

Client Sample ID / Description





800545962060

Ship (P/U) date:

Fri 9/06/2013 5:18 pm

BAN US

**Delivered**

Signed for by: C DAVIS

Actual delivery:

Sat 9/07/2013 9:50 am

MA US

Let us tell you when your shipment arrives. Sign up for delivery notifications ►

**Travel History**

▲ Date/Time	Activity	Location
- 9/07/2013 - Saturday		
9:50 am	Delivered	MA
8:36 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
8:24 am	At local FedEx facility	WINDSOR LOCKS, CT
6:44 am	At destination sort facility	EAST GRANBY, CT
3:21 am	Departed FedEx location	MEMPHIS, TN
- 9/06/2013 - Friday		
10:58 pm	Arrived at FedEx location	MEMPHIS, TN
5:59 pm	Left FedEx origin facility	BANGOR, ME
5:18 pm	Picked up	BANGOR, ME
		Local Scan Time

**Shipment Facts**

Tracking number	800545962060	Service	FedEx Priority Overnight
Weight	11 lbs	Dimensions	12x10x7 in.
Delivered To	Receptionist/Front Desk	Total pieces	1
Total shipment weight	11 lbs / 5 kgs	Shipper reference	224379 04
Packaging	Your Packaging	Special handling section	For Saturday Delivery

**Login Sample Receipt Checklist**  
**(Rejection Criteria Listing - Using Sample Acceptance Policy)**  
**Any False statement will be brought to the attention of Client**

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

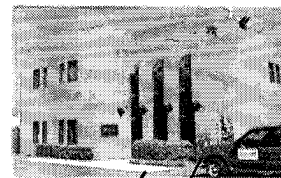
**Who notified of False statements?**  
**Log-In Technician Initials:**

**Date/Time:**  
**Date/Time:**

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



Page 1 of 2



## Sample Receipt Checklist

CLIENT NAME: Woodard & Carran

RECEIVED BY: CEC

DATE: 9/7/13

1) Was the chain(s) of custody relinquished and signed?

Yes ☒ No ☐ No CoC Included

2) Does the chain agree with the samples?

Yes ☒ No ☐

If not, explain:

3) Are all the samples in good condition?

Yes ☒ No ☐

If not, explain:

4) How were the samples received:

On Ice ☐

Direct from Sampling ☐

Ambient ☐

In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)?

Yes ☒ No ☐ N/A

Temperature °C by Temp blank

Temperature °C by Temp gun

4.8°C

5) Are there Dissolved samples for the lab to filter?

Yes ☐ No ☒

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes ☐ No ☒

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes ☐ No ☒ N/A

9) Do all samples have the proper Base pH: Yes ☐ No ☒ N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes ☐ No ☒ N/A

## Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz <u>amber</u> /clear jar	<u>10</u>
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol \_\_\_\_\_

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_

Rev. 4 August 2013 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

November 6, 2013

Amy Martin  
Woodard & Curran - Portland, ME  
41 Hutchins Drive  
Portland, ME 04102

Project Location: UMaine - Fieldhouse  
Client Job Number:  
Project Number: 224329.04  
Laboratory Work Order Number: 13K0036

Enclosed are results of analyses for samples received by the laboratory on November 1, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley  
Project Manager

Woodard & Curran - Portland, ME  
41 Hutchins Drive  
Portland, ME 04102  
ATTN: Amy Martin

REPORT DATE: 11/6/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 224329.04

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13K0036

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: UMaine - Fieldhouse

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
UMFH-VBB-001	13K0036-01	Brick		SW-846 8082A	
UMFH-VBC-002	13K0036-02	Concrete		SW-846 8082A	
UMFH-VBB-003	13K0036-03	Brick		SW-846 8082A	
UMFH-VBB-004	13K0036-04	Brick		SW-846 8082A	
UMFH-VBB-022	13K0036-05	Brick		SW-846 8082A	
UMFH-VBC-021	13K0036-06	Concrete		SW-846 8082A	
UMFH-VBC-043	13K0036-07	Concrete		SW-846 8082A	

#### CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "M. Erickson", is displayed on a light gray rectangular background.

Michael A. Erickson  
Laboratory Director

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0036

Date Received: 11/1/2013

Field Sample #: UMFH-VBB-001

Sampled: 10/31/2013 15:40

Sample ID: 13K0036-01

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:38	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:38	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:38	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:38	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:38	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:38	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:38	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:38	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:38	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	104	30-150						11/5/13 2:38	
Decachlorobiphenyl [2]	110	30-150						11/5/13 2:38	
Tetrachloro-m-xylene [1]	100	30-150						11/5/13 2:38	
Tetrachloro-m-xylene [2]	106	30-150						11/5/13 2:38	

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0036

Date Received: 11/1/2013

Field Sample #: UMFH-VBC-002

Sampled: 10/31/2013 15:45

Sample ID: 13K0036-02

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:50	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:50	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:50	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:50	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:50	MJC
Aroclor-1254 [1]	0.88	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:50	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:50	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:50	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 2:50	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	105	30-150							
Decachlorobiphenyl [2]	111	30-150							
Tetrachloro-m-xylene [1]	107	30-150							
Tetrachloro-m-xylene [2]	113	30-150							



Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0036

Date Received: 11/1/2013

Field Sample #: UMFH-VBB-003

Sampled: 10/31/2013 15:50

Sample ID: 13K0036-03

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:02	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:02	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:02	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:02	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:02	MJC
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:02	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:02	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:02	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:02	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	106	30-150							
Decachlorobiphenyl [2]	112	30-150							
Tetrachloro-m-xylene [1]	105	30-150							
Tetrachloro-m-xylene [2]	111	30-150							

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0036

Date Received: 11/1/2013

Field Sample #: UMFH-VBB-004

Sampled: 10/31/2013 15:55

Sample ID: 13K0036-04

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:15	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:15	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:15	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:15	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:15	MJC
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:15	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:15	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:15	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:15	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	111	30-150							
Decachlorobiphenyl [2]	118	30-150							
Tetrachloro-m-xylene [1]	111	30-150							
Tetrachloro-m-xylene [2]	117	30-150							

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0036

Date Received: 11/1/2013

Field Sample #: UMFH-VBB-022

Sampled: 10/31/2013 16:00

Sample ID: 13K0036-05

Sample Matrix: Brick

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:27	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:27	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:27	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:27	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:27	MJC
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:27	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:27	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:27	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:27	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	106	30-150							
Decachlorobiphenyl [2]	112	30-150							
Tetrachloro-m-xylene [1]	95.6	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0036

Date Received: 11/1/2013

Field Sample #: UMFH-VBC-021

Sampled: 10/31/2013 16:10

Sample ID: 13K0036-06

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:39	MJC
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:39	MJC
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:39	MJC
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:39	MJC
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:39	MJC
Aroclor-1254 [1]	1.1	0.098	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:39	MJC
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:39	MJC
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:39	MJC
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:39	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	111	30-150							
Decachlorobiphenyl [2]	118	30-150							
Tetrachloro-m-xylene [1]	111	30-150							
Tetrachloro-m-xylene [2]	117	30-150							

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0036

Date Received: 11/1/2013

Field Sample #: UMFH-VBC-043

Sampled: 10/31/2013 16:15

Sample ID: 13K0036-07

Sample Matrix: Concrete

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:52	MJC
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:52	MJC
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:52	MJC
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:52	MJC
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:52	MJC
Aroclor-1254 [1]	0.37	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:52	MJC
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:52	MJC
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:52	MJC
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	11/2/13	11/5/13 3:52	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	110	30-150							
Decachlorobiphenyl [2]	117	30-150							
Tetrachloro-m-xylene [1]	112	30-150							
Tetrachloro-m-xylene [2]	118	30-150							

**Sample Extraction Data**

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13K0036-01 [UMFH-VBB-001]	B084240	2.00	10.0	11/02/13
13K0036-02 [UMFH-VBC-002]	B084240	2.03	10.0	11/02/13
13K0036-03 [UMFH-VBB-003]	B084240	2.02	10.0	11/02/13
13K0036-04 [UMFH-VBB-004]	B084240	2.02	10.0	11/02/13
13K0036-05 [UMFH-VBB-022]	B084240	2.02	10.0	11/02/13
13K0036-06 [UMFH-VBC-021]	B084240	2.04	10.0	11/02/13
13K0036-07 [UMFH-VBC-043]	B084240	2.03	10.0	11/02/13

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B084240 - SW-846 3540C**
**Blank (B084240-BLK1)**

Prepared: 11/02/13 Analyzed: 11/04/13

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.999		mg/Kg	1.00		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.918		mg/Kg	1.00		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.963		mg/Kg	1.00		96.3	30-150			

**LCS (B084240-BS1)**

Prepared: 11/02/13 Analyzed: 11/04/13

Aroclor-1016	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		102	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140			
Surrogate: Decachlorobiphenyl	1.05		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.12		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	1.01		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.06		mg/Kg	1.00		106	30-150			

**LCS Dup (B084240-BSD1)**

Prepared: 11/02/13 Analyzed: 11/05/13

Aroclor-1016	0.25	0.10	mg/Kg	0.250		102	40-140	2.66	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		107	40-140	4.08	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		97.5	40-140	4.77	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		104	40-140	3.96	30	
Surrogate: Decachlorobiphenyl	0.998		mg/Kg	1.00		99.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.962		mg/Kg	1.00		96.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.02		mg/Kg	1.00		102	30-150			

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B084240 - SW-846 3540C**
**Matrix Spike (B084240-MS1)**
**Source: 13K0036-01**

Prepared: 11/02/13 Analyzed: 11/05/13

Aroclor-1016	0.27	0.10	mg/Kg	0.250	0.0	107	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250	0.0	120	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250	0.0	103	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250	0.0	106	40-140			
Surrogate: Decachlorobiphenyl	1.03		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.10		mg/Kg	1.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	0.943		mg/Kg	1.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.995		mg/Kg	1.00		99.5	30-150			

**Matrix Spike Dup (B084240-MSD1)**
**Source: 13K0036-01**

Prepared: 11/02/13 Analyzed: 11/05/13

Aroclor-1016	0.28	0.10	mg/Kg	0.250	0.0	110	40-140	2.63	50	
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250	0.0	121	40-140	1.26	50	
Aroclor-1260	0.26	0.10	mg/Kg	0.250	0.0	105	40-140	2.30	50	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250	0.0	105	40-140	1.02	50	
Surrogate: Decachlorobiphenyl	1.05		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.11		mg/Kg	1.00		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.975		mg/Kg	1.00		97.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.03		mg/Kg	1.00		103	30-150			



**FLAG/QUALIFIER SUMMARY**

- \* QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,NJ

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
East longmeadow, MA 01028

Page 1 of 1

Company Name: Woodard & Curran

Telephone: 207-774-2112

Address: Portland ME 04102

Project # 224329.04

Attention: And Martin

Client PO#

DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ WEBSITE

Project Location: UMaine - Field house

Fax #

Sampled By: E. Smith

Email: martine.woodard@curran.com

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No proposal date

Format: ☒ PDF ☒ EXCEL ☐ OGIS

## Collection

☐ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Date/Time	Lab Code										
01	UMFH-VB3-001	10/31/13	1540				0	U									
02	-VB3-002		1545														
03	-VB3-003		1550														
04	-VB3-004		1555														
05	-VB3-002		1600														
06	-VB3-021		1610														
07	-VB3-043		1615														
—	-VB3-044		1640														

Comments: \*1 liter amber received broken, mex notified

Sampler 11/1. per

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

## Turnaround

☐ 7-Day  
☐ 10-Day  
☐ Other

## Detection Limit Requirements

Massachusetts: \_\_\_\_\_  
Connecticut: \_\_\_\_\_  
Other: Maine

Is your project MCP or RCP?  
☐ MCP Analytical Certification Form Required  
☐ RCP Analysis Certification Form Required  
☐ MA State DW Form Required PWSD # \_\_\_\_\_

## ANALYSIS REQUESTED

Dissolved Meta

☐ Field Filtered  
☐ Lab to Filter

## \*\*\*Cont. Code:

A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summa can  
T=tetlar bag  
O=Other

## \*\*Preservation

I = Iced  
H = HCL  
M = Methanol  
N = Nitric Acid  
S = Sulfuric Acid  
B = Sodium bisulfate  
X = Na hydroxide  
T = Na thiosulfate  
O = Other

## \*Matrix Code:

GW= groundwater  
WW= wastewater  
DW= drinking water  
A = air  
S = soil/solid  
SL= sludge  
O = other Gravel  
Conc



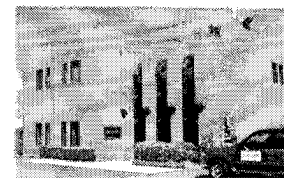
NEELAC & AIHA Certified  
WBE/DBE Certified

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT.

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



Page 1 of 2



## Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: DB DATE: 11/1/13

1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No ☐ No CoC Included

2) Does the chain agree with the samples?

☒ Yes ☐ No

If not, explain:

3) Are all the samples in good condition?

Yes ☒ No

If not, explain:

packed poorly.  
1 liter amber  
Received Broken

4) How were the samples received:

On Ice ☐

Direct from Sampling ☐

Ambient ☒

In Cooler(s) ☐

Were the samples received in Temperature Compliance of (2-6°C)? Yes ☒ No ☐ N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 29.5

5) Are there Dissolved samples for the lab to filter?

Yes ☒ No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

☒ Yes ☐ No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

log in

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved  
Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes No ☒ N/A

9) Do all samples have the proper Base pH: Yes No ☒ N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No ☒ N/A

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>1 Broken</u>	8 oz amber/clear jar	
500 mL Amber		4 oz <del>amber</del> /clear jar	<u>7</u>
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

1 lit amber received broken  
MEK notified sampler 11/1

40 mL vials: # HCl \_\_\_\_\_ # Methanol \_\_\_\_\_

Doc# 277

# Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_

Rev. 4 August 2013

# Thiosulfate \_\_\_\_\_ Unpreserved

Time and Date Frozen:

**Login Sample Receipt Checklist****(Rejection Criteria Listing - Using Sample Acceptance Policy)****Any False statement will be brought to the attention of Client**

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	NA	
3) Samples were received on ice.	NA	
4) Cooler Temperature is acceptable.	<del>F</del> NA	
5) Cooler Temperature is recorded.	NA	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	F	1 liter amber received Broken
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	F	No Volume For Sample #1
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

**Who notified of False statements?**

Log-In Technician Initials: PB

Date/Time:

Date/Time: 11/11/13

**13K0036-01** UMFH-VBB-001

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	1.00	1.05917	5.75
Decachlorobiphenyl	1.04	1.102545	5.84

**13K0036-02** UMFH-VBC-002

Analyte	Results		%RPD
Aroclor-1254	0.88	0.7914138	10.6
<b>Surrogates</b>			
Decachlorobiphenyl	1.03	1.095921	6.2
Tetrachloro-m-xylene	1.06	1.111606	4.75

**13K0036-03** UMFH-VBB-003

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.05	1.105079	5.11
Tetrachloro-m-xylene	1.04	1.094752	5.13

**13K0036-04** UMFH-VBB-004

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.10	1.165139	5.75
Tetrachloro-m-xylene	1.10	1.162906	5.56

**13K0036-05** UMFH-VBB-022

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.946	0.9972178	5.27
Decachlorobiphenyl	1.05	1.111158	5.66

**13K0036-06** UMFH-VBC-021

Analyte	Results		%RPD
Aroclor-1254	1.1	1.068603	2.9
<b>Surrogates</b>			
Decachlorobiphenyl	1.09	1.153167	5.63
Tetrachloro-m-xylene	1.09	1.146314	5.04

**13K0036-07** UMFH-VBC-043

Analyte	Results		%RPD
Aroclor-1254	0.37	0.3541035	4.39
<b>Surrogates</b>			
Tetrachloro-m-xylene	1.10	1.160695	5.37
Decachlorobiphenyl	1.08	1.148315	6.13

**B084240-BLK1** Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.999	1.06285	6.19
Tetrachloro-m-xylene	0.918	0.962885	4.77

**B084240-BS1** LCS

Analyte	Results		%RPD
Aroclor-1016	0.26	0.27891	7.02
Aroclor-1260	0.26	0.270555	3.98
<b>Surrogates</b>			
Decachlorobiphenyl	1.05	1.123635	6.78
Tetrachloro-m-xylene	1.01	1.06443	5.25

**B084240-BSD1** LCS Dup

Analyte	Results		%RPD
---------	---------	--	------

Aroclor-1260	0.24	0.260055	8.02
Aroclor-1016	0.25	0.267755	6.86
<b>Surrogates</b>			
Decachlorobiphenyl	0.998	1.063465	6.35
Tetrachloro-m-xylene	0.962	1.01713	5.57

### **B084240-MS1** Matrix Spike

Analyte	Results		%RPD
Aroclor-1260	0.26	0.26594	2.26
Aroclor-1016	0.27	0.29947	10.3
<b>Surrogates</b>			
Decachlorobiphenyl	1.03	1.095905	6.2
Tetrachloro-m-xylene	0.943	0.9947	5.34

### **B084240-MSD1** Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.28	0.303265	7.98
Aroclor-1260	0.26	0.263235	1.24
<b>Surrogates</b>			
Tetrachloro-m-xylene	0.975	1.02983	5.47
Decachlorobiphenyl	1.05	1.10969	5.53

November 14, 2013

Amy Martin  
Woodard & Curran - Portland, ME  
41 Hutchins Drive  
Portland, ME 04102

Project Location: UMaine - Fieldhouse  
Client Job Number:  
Project Number: 224329.04  
Laboratory Work Order Number: 13K0317

Enclosed are results of analyses for samples received by the laboratory on November 8, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley  
Project Manager



Woodard & Curran - Portland, ME  
41 Hutchins Drive  
Portland, ME 04102  
ATTN: Amy Martin

REPORT DATE: 11/14/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 224329.04

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13K0317

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: UMaine - Fieldhouse

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
UMFH-VBB-017	13K0317-01	Brick		SW-846 8082A	
UMFH-VBB-018	13K0317-02	Concrete		SW-846 8082A	
UMFH-VBC-019	13K0317-03	Concrete		SW-846 8082A	
UMFH-VBB-020	13K0317-04	Brick		SW-846 8082A	
UMFH-VBW-044	13K0317-05	Equipment Blank Water		SW-846 8082A	
UMFH-VBC-045	13K0317-06	Concrete		SW-846 8082A	
UMFH-VBC-046	13K0317-07	Concrete		SW-846 8082A	
UMFH-VBC-047	13K0317-08	Concrete		SW-846 8082A	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8082A****Qualifications:**

---

Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.

**Analyte & Samples(s) Qualified:****Aroclor-1248, Aroclor-1248 [2C]**13K0317-01[UMFH-VBB-017]

---

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

**Analyte & Samples(s) Qualified:****Aroclor-1016, Aroclor-1016 [2C]**13K0317-01[UMFH-VBB-017], B084763-MS1, B084763-MSD1

---

Surrogate recovery is outside of control limits. Data validation is not affected since all results are less than the reporting limit and bias is on the high side.

**Analyte & Samples(s) Qualified:****Decachlorobiphenyl**13K0317-06[UMFH-VBC-045]

---

Surrogate recovery outside of control limits in BS/MS spiked sample.

**Analyte & Samples(s) Qualified:****Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]**B084763-MSD1

---

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson  
Laboratory Director

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0317

Date Received: 11/8/2013

Field Sample #: UMFH-VBB-017

Sampled: 11/7/2013 14:00

Sample ID: 13K0317-01

Sample Matrix: Brick

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1	R-06	SW-846 8082A	11/8/13	11/11/13 18:44	PJG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:44	PJG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:44	PJG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:44	PJG
Aroclor-1248 [2]	0.38	0.098	mg/Kg	1	O-04	SW-846 8082A	11/8/13	11/11/13 18:44	PJG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:44	PJG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:44	PJG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:44	PJG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:44	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	133		30-150				11/11/13 18:44		
Decachlorobiphenyl [2]	105		30-150				11/11/13 18:44		
Tetrachloro-m-xylene [1]	102		30-150				11/11/13 18:44		
Tetrachloro-m-xylene [2]	100		30-150				11/11/13 18:44		

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0317

Date Received: 11/8/2013

Field Sample #: UMFH-VBB-018

Sampled: 11/7/2013 14:05

Sample ID: 13K0317-02

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:57	PJG
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:57	PJG
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:57	PJG
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:57	PJG
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:57	PJG
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:57	PJG
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:57	PJG
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:57	PJG
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 18:57	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	117	30-150							
Decachlorobiphenyl [2]	92.7	30-150							
Tetrachloro-m-xylene [1]	86.2	30-150							
Tetrachloro-m-xylene [2]	84.6	30-150							

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0317

Date Received: 11/8/2013

Field Sample #: UMFH-VBC-019

Sampled: 11/7/2013 14:15

Sample ID: 13K0317-03

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:09	PJG
Aroclor-1221 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:09	PJG
Aroclor-1232 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:09	PJG
Aroclor-1242 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:09	PJG
Aroclor-1248 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:09	PJG
Aroclor-1254 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:09	PJG
Aroclor-1260 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:09	PJG
Aroclor-1262 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:09	PJG
Aroclor-1268 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:09	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	139	30-150							
Decachlorobiphenyl [2]	113	30-150							
Tetrachloro-m-xylene [1]	105	30-150							
Tetrachloro-m-xylene [2]	108	30-150							

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0317

Date Received: 11/8/2013

Field Sample #: UMFH-VBB-020

Sampled: 11/7/2013 14:20

Sample ID: 13K0317-04

Sample Matrix: Brick

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:22	PJG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:22	PJG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:22	PJG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:22	PJG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:22	PJG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:22	PJG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:22	PJG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:22	PJG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:22	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	133	30-150							
Decachlorobiphenyl [2]	106	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0317

Date Received: 11/8/2013

Field Sample #: UMFH-VBW-044

Sampled: 11/7/2013 14:20

Sample ID: 13K0317-05

Sample Matrix: Equipment Blank Water

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/13/13	11/14/13 15:14	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/13/13	11/14/13 15:14	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/13/13	11/14/13 15:14	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/13/13	11/14/13 15:14	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/13/13	11/14/13 15:14	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/13/13	11/14/13 15:14	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/13/13	11/14/13 15:14	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/13/13	11/14/13 15:14	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/13/13	11/14/13 15:14	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.5	30-150							
Decachlorobiphenyl [2]	84.7	30-150							
Tetrachloro-m-xylene [1]	81.1	30-150							
Tetrachloro-m-xylene [2]	96.1	30-150							

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0317

Date Received: 11/8/2013

Field Sample #: UMFH-VBC-045

Sampled: 11/7/2013 14:35

Sample ID: 13K0317-06

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:35	PJG
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:35	PJG
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:35	PJG
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:35	PJG
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:35	PJG
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:35	PJG
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:35	PJG
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:35	PJG
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:35	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	156	*	30-150		S-17		11/11/13	19:35	
Decachlorobiphenyl [2]	127		30-150				11/11/13	19:35	
Tetrachloro-m-xylene [1]	119		30-150				11/11/13	19:35	
Tetrachloro-m-xylene [2]	123		30-150				11/11/13	19:35	



Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0317

Date Received: 11/8/2013

Field Sample #: UMFH-VBC-046

Sampled: 11/7/2013 14:35

Sample ID: 13K0317-07

Sample Matrix: Concrete

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:48	PJG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:48	PJG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:48	PJG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:48	PJG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:48	PJG
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:48	PJG
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:48	PJG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:48	PJG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 19:48	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	139	30-150							
Decachlorobiphenyl [2]	111	30-150							
Tetrachloro-m-xylene [1]	111	30-150							
Tetrachloro-m-xylene [2]	111	30-150							

Project Location: UMaine - Fieldhouse

Sample Description:

Work Order: 13K0317

Date Received: 11/8/2013

Field Sample #: UMFH-VBC-047

Sampled: 11/7/2013 14:45

Sample ID: 13K0317-08

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 20:01	PJG
Aroclor-1221 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 20:01	PJG
Aroclor-1232 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 20:01	PJG
Aroclor-1242 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 20:01	PJG
Aroclor-1248 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 20:01	PJG
Aroclor-1254 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 20:01	PJG
Aroclor-1260 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 20:01	PJG
Aroclor-1262 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 20:01	PJG
Aroclor-1268 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	11/8/13	11/11/13 20:01	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	123	30-150							
Decachlorobiphenyl [2]	96.9	30-150							
Tetrachloro-m-xylene [1]	96.6	30-150							
Tetrachloro-m-xylene [2]	96.3	30-150							

### Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13K0317-01 [UMFH-VBB-017]	B084763	2.04	10.0	11/08/13
13K0317-02 [UMFH-VBB-018]	B084763	2.13	10.0	11/08/13
13K0317-03 [UMFH-VBC-019]	B084763	2.32	10.0	11/08/13
13K0317-04 [UMFH-VBB-020]	B084763	2.05	10.0	11/08/13
13K0317-06 [UMFH-VBC-045]	B084763	2.07	10.0	11/08/13
13K0317-07 [UMFH-VBC-046]	B084763	2.16	10.0	11/08/13
13K0317-08 [UMFH-VBC-047]	B084763	2.22	10.0	11/08/13

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13K0317-05 [UMFH-VBW-044]	B085062	1000	10.0	11/13/13

**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B085062 - SW-846 3510C</b>										
<b>Blank (B085062-BLK1)</b>										
Prepared: 11/13/13 Analyzed: 11/14/13										
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.72		µg/L	2.00		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.77		µg/L	2.00		88.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.50		µg/L	2.00		75.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.78		µg/L	2.00		88.9	30-150			
<b>LCS (B085062-BS1)</b>										
Prepared: 11/13/13 Analyzed: 11/14/13										
Aroclor-1016	0.44	0.20	µg/L	0.500		88.9	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260	0.41	0.20	µg/L	0.500		81.4	40-140			
Aroclor-1260 [2C]	0.47	0.20	µg/L	0.500		94.7	40-140			
Surrogate: Decachlorobiphenyl	1.74		µg/L	2.00		86.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.78		µg/L	2.00		89.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.49		µg/L	2.00		74.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.76		µg/L	2.00		88.1	30-150			
<b>LCS Dup (B085062-BSD1)</b>										
Prepared: 11/13/13 Analyzed: 11/14/13										
Aroclor-1016	0.47	0.20	µg/L	0.500		94.3	40-140	5.90	20	
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		109	40-140	5.71	20	
Aroclor-1260	0.43	0.20	µg/L	0.500		86.0	40-140	5.58	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		101	40-140	6.05	20	
Surrogate: Decachlorobiphenyl	1.63		µg/L	2.00		81.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.66		µg/L	2.00		83.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.53		µg/L	2.00		76.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.81		µg/L	2.00		90.7	30-150			

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B084763 - SW-846 3540C**
**Blank (B084763-BLK1)**

Prepared: 11/08/13 Analyzed: 11/11/13

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.31		mg/Kg	1.00		131	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	1.00		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.983		mg/Kg	1.00		98.3	30-150			

**LCS (B084763-BS1)**

Prepared: 11/08/13 Analyzed: 11/11/13

Aroclor-1016	0.28	0.10	mg/Kg	0.250		114	40-140			
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		107	40-140			
Aroclor-1260	0.28	0.10	mg/Kg	0.250		113	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		96.6	40-140			
Surrogate: Decachlorobiphenyl	1.32		mg/Kg	1.00		132	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.05		mg/Kg	1.00		105	30-150			

**LCS Dup (B084763-BSD1)**

Prepared: 11/08/13 Analyzed: 11/11/13

Aroclor-1016	0.26	0.10	mg/Kg	0.250		106	40-140	7.26	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		102	40-140	4.60	30	
Aroclor-1260	0.28	0.10	mg/Kg	0.250		111	40-140	1.76	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		94.8	40-140	1.84	30	
Surrogate: Decachlorobiphenyl	1.29		mg/Kg	1.00		129	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.03		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.948		mg/Kg	1.00		94.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.932		mg/Kg	1.00		93.2	30-150			

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B084763 - SW-846 3540C**

<b>Matrix Spike (B084763-MS1)</b>		<b>Source: 13K0317-01</b>		Prepared: 11/08/13		Analyzed: 11/11/13				
Aroclor-1016	0.28	0.10	mg/Kg	0.250	0.0	112	40-140			R-06
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250	0.0	106	40-140			R-06
Aroclor-1260	0.29	0.10	mg/Kg	0.250	0.0	114	40-140			
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250	0.0	104	40-140			
Surrogate: Decachlorobiphenyl	1.32		mg/Kg	1.00		132	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.03		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.950		mg/Kg	1.00		95.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.940		mg/Kg	1.00		94.0	30-150			

Matrix Spike Dup (B084763-MSD1)		Source: 13K0317-01		Prepared: 11/08/13		Analyzed: 11/11/13					
Aroclor-1016	0.11	0.10	mg/Kg	0.250	0.0	45.2	40-140	85.1	*	50	R-06
Aroclor-1016 [2C]	0.10	0.10	mg/Kg	0.250	0.0	41.1	40-140	88.2	*	50	R-06
Aroclor-1260	0.22	0.10	mg/Kg	0.250	0.0	87.4	40-140	26.7		50	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg	0.250	0.0	80.3	40-140	25.3		50	
Surrogate: Decachlorobiphenyl	1.07		mg/Kg	1.00		107	30-150				
Surrogate: Decachlorobiphenyl [2C]	0.827		mg/Kg	1.00		82.7	30-150				
Surrogate: Tetrachloro-m-xylene	0.289		mg/Kg	1.00		28.9	*	30-150			Z-01
Surrogate: Tetrachloro-m-xylene [2C]	0.267		mg/Kg	1.00		26.7	*	30-150			Z-01

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
O-04	Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all results are less than the reporting limit and bias is on the high side.
Z-01	Surrogate recovery outside of control limits in BS/MS spiked sample.

# CERTIFICATIONS

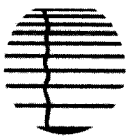
## Certified Analyses included in this Report

Analyte	Certifications
<b><i>SW-846 8082A in Product/Solid</i></b>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,NJ
<b><i>SW-846 8082A in Water</i></b>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC



The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



**con-test**  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

## CHAIN OF CUSTODY RECORD

39 Spruce Street  
East longmeadow, MA 01028

Page 1 of 1

Page 19 of 24

Company Name: Woodard & Curran

Telephone: 207-774-2112

Address: Portland, ME 04101

Project # 224329.04

Attention: AMY Martin

Project Location: UMaine - FH.

Sampled By: Charlie Smith

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

### Collection

Con-Test Lab ID  
(laboratory use only)

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix  
Date

Blank Date

"Enhanced Data Package"

Client PO#

DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ WEBSITE

Fax #

Email:

Format:

☒ PDF ☒ XCEL ☐ GIS

☐ OTHER

amartin@woodardcurran.com

### ANALYSIS REQUESTED

Dissolved Metal

☐ Field Filtered  
☐ Lab to Filter

\*\*\*Cont. Code:

A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summary can  
T=tedlar bag  
O=Other

\*\*\*Preservation

I = Iced  
H = HCL  
M = Methanol  
N = Nitric Acid  
S = Sulfuric Acid  
B = Sodium bisulfate  
X = Na hydroxide  
T = Na thiosulfate  
O = Other

\*\*\*Matrix Code:

GW = groundwater  
WW = wastewater  
DW = drinking water  
A = air  
S = soil/solid  
SL = sludge  
O = other

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

### Turnaround

☐ 7-Day

☐ 10-Day

☐ Other

☒ RUSH

☐ 24-Hr ☐ 48-Hr

☒ 72-Hr ☐ 14-Day

Require lab approval

Other:

None

### Detection Limit Requirements

Massachusetts:

Connecticut:

Other:

Other:

### Is your project MCP or RCP?

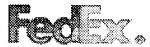
- ☐ MCP Analytical Certification Form Required  
☐ RCP Analysis Certification Form Required  
☐ MA State DW Form Required PWSID # \_\_\_\_\_



NEIAC & AIHA Certified  
WBE/DBE Certified

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



797107001705

Ship (P/U) date :

Thur 11/07/2013 5:18 pm

Bangor, ME US

**Delivered**

Signed for by: P BLAKE

Actual delivery :

Fri 11/08/2013 9:32 am

East Longmeadow, MA US

**Travel History**

▲ Date/Time	Activity	Location
- 11/08/2013 - Friday		
9:32 am	Delivered	East Longmeadow, MA
8:13 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:38 am	At local FedEx facility	WINDSOR LOCKS, CT
6:53 am	At destination sort facility	EAST GRANBY, CT
3:50 am	Departed FedEx location	MEMPHIS, TN
- 11/07/2013 - Thursday		
11:48 pm	Arrived at FedEx location	MEMPHIS, TN
7:08 pm	Left FedEx origin facility	BANGOR, ME
5:18 pm	Picked up	BANGOR, ME
3:19 pm	Shipment information sent to FedEx	

Local Scan Time

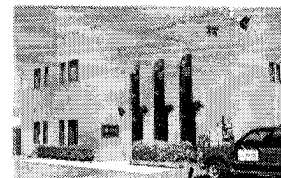
**Shipment Facts**

Tracking number	797107001705	Service	FedEx Priority Overnight
Weight	18 lbs	Dimensions	19x11x14 in.
Delivered To	Receptionist/Front Desk	Total pieces	1
Total shipment weight	18 lbs / 8.2 kgs	Shipper reference	224329.04
Packaging	Your Packaging	Special handling section	Deliver Weekday, Additional Handling Surcharge

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



Page 1 of 2



## Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: CEC DATE: 11/8/13

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

Yes No

If not, explain:

3) Are all the samples in good condition?

Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 4.0°C Temperature °C by Temp gun \_\_\_\_\_

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

14

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved  
Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>1</u>	8 oz amber/clear jar	
500 mL Amber		4 oz <u>amber</u> clear jar	<u>7</u>
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol \_\_\_\_\_

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_

Rev. 4 August 2013 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

## Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)		Comment
	T/F/NA		
1) The cooler's custody seal, if present, is intact.	T		
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.	NA		
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	T		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.	NA		
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA		
21) Samples do not require splitting or compositing.	T		

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials:

CEC

Date/Time:

Date/Time:

11/8/13

0922

**13K0317-01** UMFH-VBB-017

Analyte	Results		%RPD
Aroclor-1248 [2C]	0.38	0.3150784	18.7
Surrogates			
Decachlorobiphenyl	1.31	1.033172	23.6
Tetrachloro-m-xylene	0.998	0.9851373	1.3

**13K0317-02** UMFH-VBB-018

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.10	0.8702957	23.3
Tetrachloro-m-xylene	0.809	0.7939155	1.88

**13K0317-03** UMFH-VBC-019

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.20	0.9726897	20.9
Tetrachloro-m-xylene	0.906	0.9275647	2.35

**13K0317-04** UMFH-VBB-020

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.30	1.035507	22.6
Tetrachloro-m-xylene	1.00	0.9965171	0.349

**13K0317-05** UMFH-VBW-044

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	1.62	1.92198	17.1
Decachlorobiphenyl	1.67	1.69362	1.4

**13K0317-06** UMFH-VBC-045

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.50	1.226792	20
Tetrachloro-m-xylene	1.15	1.188812	3.32

**13K0317-07** UMFH-VBC-046

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.29	1.024398	23
Tetrachloro-m-xylene	1.03	1.030282	0.0274

**13K0317-08** UMFH-VBC-047

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.11	0.8726126	23.9
Tetrachloro-m-xylene	0.870	0.8679279	0.238

**B084763-BLK1** Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.31	1.060265	21.1
Tetrachloro-m-xylene	1.00	0.98302	1.71

**B084763-BS1** LCS

Analyte	Results		%RPD
Aroclor-1016	0.28	0.2683	4.27
Aroclor-1260	0.28	0.24139	14.8
Surrogates			
Tetrachloro-m-xylene	1.06	1.048445	1.1

Decachlorobiphenyl	1.32	1.064365	21.4
--------------------	------	----------	------

### B084763-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.26	0.256245	1.45
Aroclor-1260	0.28	0.236995	16.6
Surrogates			
Decachlorobiphenyl	1.29	1.029	22.5
Tetrachloro-m-xylene	0.948	0.93164	1.74

### B084763-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.28	0.26481	5.58
Aroclor-1260	0.29	0.25892	11.3
Surrogates			
Decachlorobiphenyl	1.32	1.03439	24.3
Tetrachloro-m-xylene	0.950	0.940005	1.06

### B084763-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1260	0.22	0.200865	9.09
Aroclor-1016	0.11	0.10279	6.78
Surrogates			
Decachlorobiphenyl	1.07	0.827085	25.6
Tetrachloro-m-xylene	0.289	0.26734	7.79

### B085062-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.72	1.7677	2.74
Tetrachloro-m-xylene	1.50	1.77786	17

### B085062-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.44	0.51525	15.8
Aroclor-1260	0.41	0.47335	14.3
Surrogates			
Decachlorobiphenyl	1.74	1.78101	2.33
Tetrachloro-m-xylene	1.49	1.76243	16.8

### B085062-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.47	0.54555	14.9
Aroclor-1260	0.43	0.50288	15.6
Surrogates			
Tetrachloro-m-xylene	1.53	1.81317	16.9
Decachlorobiphenyl	1.63	1.66321	2.02

## **APPENDIX C: DATA VALIDATION SUMMARY**



## UMAINE - PROJECT SUMMARY

ConTest Analytical Laboratory Job Numbers: 13H0971, 13H1165, 13I0205, 13K0036, & 13K0317

A modified Tier II validation was performed on the data. The criteria detailed below were used to qualify the data. Raw data were not used to verify the results reported by the laboratory.

Samples were received at 2.0, 4.0, 4.8, 21.9, and 29.5 degrees Celsius. Some samples were received above 6.0 degrees Celsius. Since these were brick and concrete samples, no qualifications will be applied.

### PCBs:

All polychlorinated biphenyl compound (PCB) samples were extracted and analyzed within technical holding times. No qualifications will be applied.

All PCB surrogates met acceptance criteria with the following exception. The recovery for decachlorobiphenyl (DCB) on column 1 in sample UMFH-VBC-045 (13K0317-06) (156%) was above acceptance limits (30-150%). Since only one surrogate failed criteria, no qualifications will be applied.

The PCB method blanks were non-detect (ND) for all target analytes. No qualifications will be applied.

PCB field blank sample UMFH-VBW-044 (13K0317-05), was ND for all target analytes. No qualifications will be applied.

The PCB matrix spike/matrix spike duplicate (MS/MSD) performed on samples UMFH-VBC-013 (13H0971-01), UMFH-VBC-005 (13H1165-01), UMFH-VBC-027 (13I0205-01), UMFH-VBB-001 (13K0036-01), and UMFH-VBB-017 (13K0317-01) met recovery and relative percent difference (RPD) acceptance criteria (40-140%/50%) with the following exceptions:

LAB ID	SAMPLE ID	PCB-1016 (%) MS/MS/MSD/MSD	PCB-1260 (%) MS/MS/MSD/MSD	QUALIFIER
13H0971-01	UMFH-VBC-013	OK/163/OK/145	OK/OK/OK/OK	None, sample ND for all PCBs
13I0205-01	UMFH-VBC-027	161/156/143/142	177/165/143/153	None, sample ND for all PCBs
13K0317-01*	UMFH-VBB-017	OK/OK/OK/OK	OK/OK/OK/OK	None, sample ND for all PCBs

\*The RPDs for Aroclor-1016 (85.1%/88.2%) exceeded acceptance criteria.

PCB field duplicate samples UMFH-VBC-021 (13K0036-06)/UMFH-VBC-043 (13K0036-07) and UMFH-VBC-045 (13K0317-06)/UMFH-VBC-046 (13K0317-07) met RPD acceptance criteria ( $\leq 50\%$ ) with the following exception. The RPD for Aroclor-1254 (99%) in field duplicate pair UMFH-VBC-021 (13K0036-06)/UMFH-VBC-043 (13K0036-07) was above acceptance criteria. Detected Aroclor-1254 results in samples UMFH-VBC-021 (13K0036-06) and UMFH-VBC-043 (13K0036-07) were estimated (J) due to high field duplicate RPD.

The RPD between the column results for all detected PCBs met acceptance criteria. No qualifications will be applied.

Some samples were analyzed at a dilution due to the high concentration of PCBs present in the sample and/or due to sample matrix. Elevated reporting limits are reported in these samples as a result of the dilutions performed.

According to the case narrative, for Aroclor-1254 in samples UMFH-VBB-008 (13H1165-04), UMFH-VBB-026 (13H1165-12), and UMFH-VBB-017 (13K0317-01); "Sample fingerprint does not match standard exactly. Aroclor with the closest matching pattern is reported." No qualifications will be applied.

## UMAINE - PROJECT SUMMARY

**ConTest Analytical Laboratory Job Numbers: 13H0971, 13H1165, 13I0205, 13K0036, & 13K0317**

According to the case narrative, for Aroclor-1254 in sample UMFH-VBC-041 (13I0205-09); "Sample chromatography does not match reference standard exactly; possibly due to weathering." No qualifications will be applied.

Data Check, Inc.  
P.O. Box 29  
81 Meaderboro Road  
New Durham, NH 03855

Gloria J. Switalski:  
President



Date:

10/9/2013

## **APPENDIX D: WASTE SHIPMENT RECORDS**

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>M E D 0 6 0 9 9 6 4 5 1</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800 966-1102</b>	4. Manifest Tracking Number <b>001552840 GBF</b>		
5. Generator's Name and Mailing Address <b>University of Maine Orono</b> <b>5701 College Ave, Safety &amp; Env. Mgt Dept.- 5725 East Annex</b> <b>Orono ME 04469</b>				Generator's Site Address (if different than mailing address) <b>U of ME - Orono</b> <b>Field House- Long Road</b> <b>Orono ME 04469</b>			
Generator's Phone: <b>2 0 7 5 8 1 - 4 1 4 1</b>				U.S. EPA ID Number <b>M A D 9 8 0 6 7 0 0 0 4</b>			
6. Transporter 1 Company Name <b>ENPRO SERVICES, INC.</b>				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>CWM CHEMICAL SERVICES, LLC</b> <b>1550 BALMER ROAD</b> <b>MODEL CITY NY 14107</b>				U.S. EPA ID Number <b>N Y D 0 4 9 8 3 6 6 7 9</b>			
Facility's Phone: <b>7 1 6 7 5 4 - 8 2 3 1</b>							
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	<b>X</b>	<b>1. UN3432; Polychlorinated biphenyls, solid, Mixture 9, PGII</b>	<b>001</b>	<b>CM</b>	<b>EST 10895</b>	<b>K</b>	<b>M002 B007</b>
14. Special Handling Instructions and Additional Information <b>SIR # 1011732-1 profile# NY301612 9891513 feed</b> <b>Can # 252218 - weight is estimated at time of recd 9108K</b> <b>Est. 12 Tons sign ins -</b> <b>1)(S,T) PCB caulking/ debris ERG#171 Out of Service Date: 8/30/13 ENPRO PO# 22473</b> <b>ENPRO JOB# 6257-13</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name <b>THOMAS Sulekfort</b>							
Signature <i>Thomas P Sulekfort</i>							
Month Day Year <b>9 3 13</b>							
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name <b>Allan Howard</b>						
Signature <i>Allan Howard</i>							
Month Day Year <b>09 03 13</b>							
Transporter 2 Printed/Typed Name							
Signature							
Month Day Year							
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	<b>Qty est actual recd 9108K</b>						
	Manifest Reference Number: _____						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>9891513</b> 2. <b>H32</b> 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <b>Jody Parfinski</b>							
Signature <i>Jody Parfinski</i>							
Month Day Year <b>9 5 13</b>							



**CWM CHEMICAL SERVICES, LLC**

1550 Balmer Road  
Model City, NY 14107  
(716) 286-1550  
(716) 286-0211 Fax

UNIVERSITY OF MAINE  
ATTN: SAFETY/ENV MDT DEPT., CAROLYN MCDONOUGH  
MED060996451  
5725 EAST ANNEX  
ORONO ME 04469

**CERTIFICATE OF DISPOSAL**  
-----

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from UNIVERSITY OF MAINE on 09/05/13 as described on Shipping Document number 001552840GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY301612  
CWM Tracking ID: 8166213901  
CWM Unit #: 1\*0  
Disposal Date: 09/05/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR  
DISTRICT MANAGER  
Certificate # 367301  
09/06/13

For questions please call  
our Customer Service Dept.  
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>M E D 0 6 0 9 9 6 4 5 1</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800 966-1102</b>	4. Manifest Tracking Number <b>001552995 GBF</b>	
5. Generator's Name and Mailing Address <b>University of Maine Orono</b> <b>5701 College Ave.</b> <b>Orono ME 04469</b>		Att: Carolyn McDonough <b>Safety &amp; Env. Mgt Dept.- 5725 East Annex</b>		Generator's Site Address (if different than mailing address) <b>U of ME - Orono</b> <b>Field House- Long Road</b> <b>Orono ME 04469</b>		
Generator's Phone: <b>2 0 7 5 8 1 - 4 1 4 1</b>						
6. Transporter 1 Company Name <b>ENPRO SERVICES, INC.</b>		U.S. EPA ID Number <b>M A D 9 8 0 6 7 0 0 0 4</b>				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address <b>CWM CHEMICAL SERVICES, LLC</b> <b>1550 BALMER ROAD</b> <b>MODEL CITY NY 14107</b>		U.S. EPA ID Number <b>N Y D 0 4 9 8 3 6 6 7 9</b>				
Facility's Phone: <b>7 1 6 7 5 4 - 8 2 3 1</b>						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
<input checked="" type="checkbox"/>	1. <b>UN3432, WASTE Polychlorinated biphenyls, solid, Mixture 9, PGII</b>	<b>0 0 1</b>	<b>CM</b>	<b>11339.8</b>	<b>K</b>	<b>M002 B007</b>
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information <b>1)(S,T) PCB caulking/debris SR# 1016444-1</b> <b>Approval No NY301612 ERG#171 Out of Service Date: 12/2/13 (Weight is estimated)</b> <b>(ENPRO PO# 22473)</b> <b>recd 10342K 81663059</b> <b>ENPRO JOB# 6257-13</b>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations, if export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name <b>Tom Bukerforth</b> Signature <b>Thomas P. Bukerforth</b> Month Day Year <b>12 02 13</b>						
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Part of entry/exit: Transporter signature (for exports only): Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name <b>Allen Howard</b> Signature <b>Allen Howard</b> Month Day Year <b>12 02 13</b> Transporter 2 Printed/Typed Name Signature Month Day Year						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection 18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. <b>H132</b> 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name <b>Jody Partinski</b> Signature <b>Jody Partinski</b> Month Day Year <b>1 12 13</b>						



**CWM CHEMICAL SERVICES, LLC**

1550 Balmer Road  
Model City, NY 14107  
716 286 1550  
716 286 0211 Fax

UNIVERSITY OF MAINE  
ATTN: SAFETY/ENV MDT DEPT., CAROLYN MCDONOUGH  
MED060996451  
5725 EAST ANNEX  
ORONO ME 04469

**CERTIFICATE OF DISPOSAL**  
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CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from UNIVERSITY OF MAINE on 12/04/13 as described on Shipping Document number 001552995GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY301612  
CWM Tracking ID: 8166305901  
CWM Unit #: 1\*0  
Disposal Date: 12/04/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR  
DISTRICT MANAGER  
Certificate # 368709  
12/05/13

For questions please call  
our Customer Service Dept.  
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number M E D 0 6 0 9 9 6 4 5 1	2. Page 1 of 1	3. Emergency Response Phone 800 966-1102	4. Manifest Tracking Number 001552997 GBF
5. Generator's Name and Mailing Address University of Maine Orono 5701 College Ave., Safety & Env. Mgt Dept.- 5725 East Annex Orono ME 04469		Att: Carolyn McDonough		Generator's Site Address (if different than mailing address) U of ME - Orono Remond Hall - Long Road Orono ME 04469 <i>Field House</i>	
Generator's Phone: 2 0 7 5 8 1 - 4 1 4 1					
6. Transporter 1 Company Name ENPRO SERVICES, INC.		U.S. EPA ID Number M A D 9 8 0 6 7 0 0 0 4			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address ENPRO SERVICES OF VERMONT, INC. 54 AVENUE D WILLISTON VT 05495		U.S. EPA ID Number V T R 0 0 0 5 1 7 0 5 2			
Facility's Phone: 802 860-1200					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, Mixture 9, PGII	0001 DM	45	K	B007 M002 D009 mch
	2.				
	3.				
	4.				
14. Special Handling Instructions and Additional Information 1(S,T) PCB wood & caulking xTpack (VT-1213 ERG#171) (ENPRO PO# 22676-61) <i>OUT OF SERVICE DATE 11/22/13</i> <i>Added D009 waste code</i> ENPRO JOB# 6257-13					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Officer's Printed/Typed Name <i>Tam S. Kufor</i>		Signature <i>Tam S. Kufor</i>		Month Day Year 12 2 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name <i>Nicholas Reynolds</i> Signature <i>Nicholas Reynolds</i> Month Day Year 12 2 13 Transporter 2 Printed/Typed Name Signature Month Day Year					
18. Discrepancy					
15a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
10b. Alternate Facility (or Generator) Facility's Phone: U.S. EPA ID Number					
10c. Signature of Alternate Facility (or Generator) Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1. H141		2.		3. 4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name <i>Jeffrey A Baker</i>		Signature <i>Jeffrey A Baker</i>		Month Day Year 12 12 13	

EPA Form 8700-22 (Rev. 3-95) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)



# Facility Certification Report for Univ of ME - ORONO - Field House, EPAID: MED060996451

2/3/2014

In Manifest No. Line	Waste Name	Qty	Unit	Event Type	Date Received
001552997GBF 1	PCB/Hg Matting & Door Frames	45.00	deg	Ship In	12/12/2013

45.00

In Manifest No. Line	Out Manifest No. Line	Waste Name	Qty	Unit	Event Type	Date	Facility
001552997GBF 1	001030564GBF 2	PCB/Hg Matting & Door Frames	45.00	deg	IShip Out	12/30/2013	CLEAN HARBORS SPRING GROVE

45.00

1

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number		
		VTR000517052	2	802-860-1200	001030564 GBF		
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)					
ENPRO SERVICES OF VERMONT, INC. 54 AVENUE D WILLISTON VT 05495		At: ANDREW JOHNSON					
Generator's Phone: 802 860-1200							
6. Transporter 1 Company Name		U.S. EPA ID Number					
ENPRO SERVICES, INC.		MAD980670004					
7. Transporter 2 Company Name		U.S. EPA ID Number					
CLEAR HARBOR'S ENVIRONMENTAL SERVICES INC		MAD039300050					
8. Designated Facility Name and Site Address		U.S. EPA ID Number					
Spring Grove Resource Recovery, Inc. 4879 Spring Grove Ave Cincinnati OH 45232							
Facility's Phone: 513 681-5738		OHD000816629					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. NA3082, Hazardous waste, liquid, n.o.s.(Methanol) 9, PGIII	001	DM	00115	K	F003	M002 VT01
X	2. RQ NA3077, Hazardous waste, solid, n.o.s.(Mercury, Polychlorinated biphenyls) 9, PGIII	001	DM	00060	K	D009	M002 VT01
X	3. UN1992, WASTE Flammable liquids, toxic, n.o.s.(Hexane, Polychlorinated biphenyls) 3 (6.1), PGII	001	DF	00020	K	D001	VT01
X	4. UN3286, WASTE Flammable liquid, toxic, corrosive, n.o.s.(Methanol, Methylene chloride, Sulfuric acid) 3 (6.1, 8), PGII	001	DM	00126	K	D001 D002 F002 F003 VX50	VT01
14. Special Handling Instructions and Additional Information							
1)(I,T) CH723374 (CH DM Request/Order # 99678; Sales Order# D28797211) ERG#171 2)(E,T) CH729755 Enpro PO# EVI-6064; CH PO# EVI-6045 ERG#171 3)(I,T) CH723499 ERG#131 4)(L,I,C,T) CH601343 ERG#131							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name		Signature		Month		Day	Year
Jeff Frederick		[Signature]		12		30	13
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name		Signature		Month		Day	Year
Allan Howard		[Signature]		12		31	13
Transporter 2 Printed/Typed Name		Signature		Month		Day	Year
WILLIAM MULLER		[Signature]		12		31	13
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator) U.S. EPA ID Number _____							
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) Month _____ Day _____ Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H040		2. H040		3. H040		4. H040	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name		Signature		Month		Day	Year
Nicole Erdy		[Signature]		1		16	14

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)		21. Generator ID Number <b>VTR000517052</b>	22. Page <b>2 of 2</b>	23. Manifest Tracking Number <b>001030564GBF</b>	
24. Generator's Name <b>ENPRO SERVICES OF VERMONT, INC.</b>					
25. Transporter <sup>3</sup> Company Name <b>Wynn Parsons Environmental Services Inc.</b>			U.S. EPA ID Number <b>MA063932250</b>		
26. Transporter <sup>4</sup> Company Name <b>Clean Hazards Environmental Services Co.</b>			U.S. EPA ID Number <b>MA063932250</b>		
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No. Type		29. Total Quantity	30. Unit Wt./Vol.
	5 UN3286, WASTE Flammable liquid, toxic, corrosive, n.o.s. (Methanol, Methylene chloride, Sulfuric acid) 3 (6.1, 8), PGI	001	DF	00012	K
32. Special Handling Instructions and Additional Information <b>5(L,I,C,T) CH601343 ERG#131</b>					
33. Transporter <sup>3</sup> Acknowledgment of Receipt of Materials Printed/Typed Name: <b>Wayne Coffin</b> Signature: <b>Wayne Coffin</b> Month: <b>1</b> Day: <b>9</b> Year: <b>14</b>					
34. Transporter <sup>4</sup> Acknowledgment of Receipt of Materials Printed/Typed Name: <b>James L. Coffin</b> Signature: <b>James L. Coffin</b> Month: <b>01</b> Day: <b>10</b> Year: <b>14</b>					
35. Discrepancy					
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) <b>H040</b>					



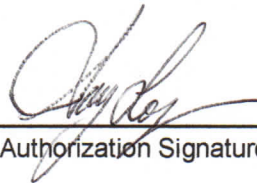
## ***Certificate of Disposal***

### ***ENPRO SERVICES OF VERMONT, INC.***

This is to certify that all material from University of Maine Orono, 5701 College Ave, Orono ME 04469 per Manifest Number: 001552997GBF received by ENPRO SERVICES OF VERMONT, INC., WILLISTON VT 05495 on December 12, 2013 has been recycled/disposed of in a manner consistent with acceptable engineering standards and in compliance with applicable permits, authorizations, rules, and regulations issued or set forth by State and Federal authorities.

#### Waste Streams Received:

U of M -- 04 PCB/Hq Matting & Door Frames



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Authorization Signature